

Mac

All your Apple needs

FORMAT

*A celebration
(1955–2011)*

> A celebration of Steve Jobs (1955–2011)

Printed in the UK



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12>

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2

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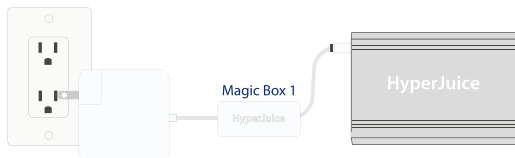
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HyperJuice Magic Box

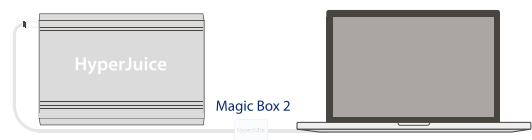
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1



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2



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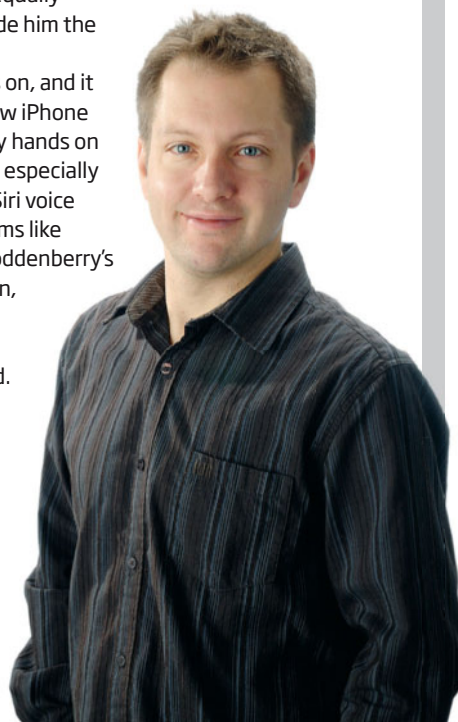
As we were in the middle of putting this issue together we received the sad news that Steve Jobs had passed away. While we all knew he was ill, it still came as a shock to think he was no longer with us. I knew immediately that we needed to shelve our plans for the December issue of *MacFormat* and produce the fitting tribute to Steve that our readers would expect from the UK's biggest Apple magazine; I hope we've done that.

This issue is dedicated to Steve Jobs, the legend who, along with his friend Steve Wozniak, started Apple and stuck with it through the good times and the bad times, and turned it into the largest company in the world. The rise of Apple is one of the greatest success stories of recent years, and the story of Steve Jobs is equally fascinating. Find out what made him the man he was on page 70.

Of course, life at Apple goes on, and it has just released the brand new iPhone 4S. I was really eager to get my hands on it (see my review on page 86), especially after seeing the demo of the Siri voice control technology, which seems like another step closer to Gene Roddenberry's vision of the future. Once again, Apple is pushing the existing boundaries of technology.

I think Steve would be proud.

Graham Barlow, Editor
graham.barlow@futurenet.com
twitter.com/MacFormat



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Rob Mead-Green

Deputy Editor



"The most amazing thing for me is that Steve rejected almost all the trappings of a multi-billionaire lifestyle, preferring a simple, almost ordinary life. I love that idea."

Ian Osborne

Reviews Editor



"You can sum up Steve Jobs' legacy in exactly four words: 'he changed the world'. Even those who have never used a Mac or iOS device still benefit from his vision."

Laurence Cable

Contributor



"Jobs changed the way we think about technology, from the graphical user interface to the sleek, stylish Macs of today. How many other inventors can say that?"

Tim Hardwick

Production Editor



"That Steve's strength of purpose and passion for life never dimmed throughout his illness is, for me, one of the most enduring lessons he left us. A true inspiration for all."

Alex Thomas

Art Editor



"For me, Jobs was the ultimate showman. His personality and charisma were as important to the look and feel of the Apple brand as the products he introduced."

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WIN!

A Mac mini and a copy of Anime Studio Pro 8!

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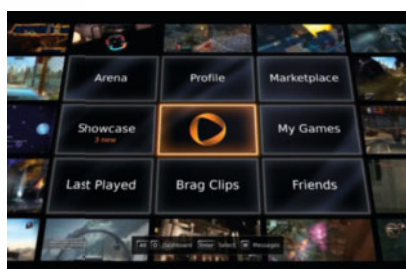
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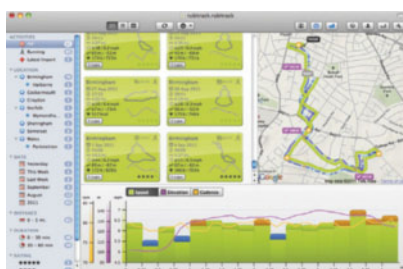


"When you think about a Keynote project, the chances are you think 'slideshow'"

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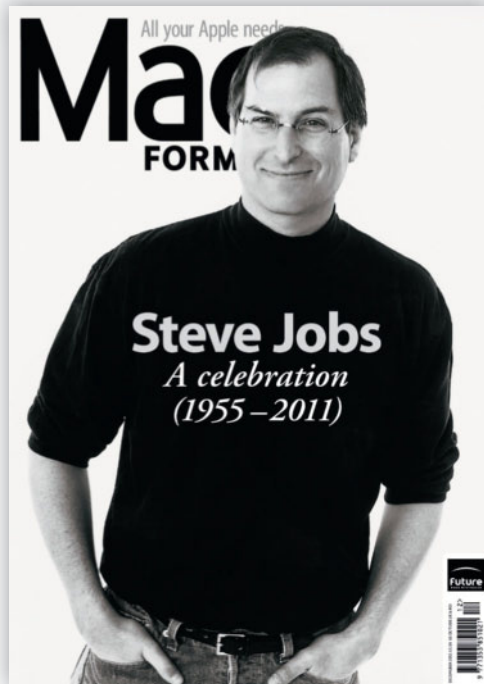
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>> WHY NOT ALSO TRY?

We've launched a new magazine app for the iPad. Search for Tap! on the Store or head to www.tapmag.co.uk/app to find out more!



Steven Paul Jobs

(1955 – 2011)

On 5 October, surrounded by family and friends, Apple Chairman and long-standing CEO, Steve Jobs, passed away at his home in Palo Alto, California. We invite MacFormat readers to look back with us at an extraordinary legacy, to pay tribute to a leading light in the tech industry, and to celebrate the life that started it all.

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An iPad 2 shows Apple's Jobs memorial page amid public tributes.

Tony Avelar/Bloomberg via Getty Images

Words: Jonny Evans

Tributes rush in for Apple co-founder

We look at the industry reaction to the passing of Steve Jobs, and what it means for Apple...

Steve was a proven visionary who led some of the most significant technology evolutions across his career. From the birth of Apple to the Mac, iPod, iPhone, iPad and beyond, in software and in hardware he clearly lived up to his own exhortation that "we're here to put a dent in the universe".

Tributes were immediate. Twitter traffic hit a near-record 6,049 tweets per second as news of his death spread. It is understood that Apple's

senior executives knew Jobs' condition had worsened and that his end was near when they were announcing the iPhone 4S. Perhaps that's why many watching the keynote felt company leaders seemed less energised than normal. Perhaps they were mulling the imminent loss. Apple's chief designer and close friend of Jobs, Jonny Ive, was notably absent from the launch.

Announcing the passing of Apple's visionary leader, company CEO, Tim Cook, wrote:

"Team, I have some very sad news to share with all of you. Steve passed away earlier today.

"Apple has lost a visionary and creative genius, and the world has lost an amazing human being. Those of us who have been fortunate enough to know and work with Steve have lost a dear friend and an inspiring mentor. Steve leaves behind a company that only he could have built; his spirit will forever be the foundation of Apple.

"We are planning a celebration of Steve's extraordinary life for Apple employees that will take place soon. If you would like to share your thoughts, memories and condolences in the interim, you can simply email them to rememberingsteve@apple.com.

"No words can adequately express our sadness at Steve's death or our gratitude for the opportunity to work with him. We will honour his memory by dedicating ourselves to continuing the work that he loved so much."

Apple board statement

In a statement, Apple's board said: "Steve's brilliance, passion and energy were the source of countless innovations that enrich and improve all of our lives. The world is immeasurably better because of Steve. His greatest love was for his wife, Laurene, and his family. Our hearts go out to them and to all who were touched by his extraordinary gifts."

Inside Apple buildings, staff left cards, pictures and flowers to mark the passing of their Chairman. On the streets, people gathered to leave wreaths and other remembrances outside Apple retail stores – a public expression that in his remarkable life, Jobs made a 'dent' in the universe.

This became apparent on the release day of the iPhone 4S, 14 October, when

Google CEO, Larry Page, remarked, "Steve was a great man with incredible achievements and amazing brilliance. He always seemed to be able to say in very few words what you actually should have been thinking before you thought it."

Marc Andreessen, Netscape co-founder and venture capitalist: "Steve's work made the world a better place for hundreds of millions of people."

Jeff Bezos, Amazon.com founder and Chief Executive: "Steve was a teacher to anyone paying attention, and today is a very sad day for everyone who cares about innovation and high standards."

US President, Barack Obama, said: "Steve was among the greatest of American innovators – brave enough to think differently, bold enough to believe he could change the world, and talented enough to do it."

Big Apple

New York Mayor Michael R Bloomberg: "Tonight, America lost a genius who will be remembered with Edison and Einstein, and

"Steve's brilliance, passion and energy were the source of countless innovations that enrich and improve all of our lives"

customers worldwide referred to the departed leader's legacy.

"I am a fan, a big fan. I want something to remember Steve Jobs by," said Haruko Shiraishi, speaking to *Business Day*.

"I bought it for Steve Jobs as a tribute. I was very sad at his passing," said Sydney resident, Tom Mosca.

Competitors, colleagues and friends reacted sadly to the news. Tributes poured in, and it was clear that Jobs, the man, had struck a genuine emotional chord that resonates across friends, colleagues, and competitors. Apple co-founder, Steve Wozniak, remarked that hearing the news of the death of his old friend "was almost like when John Lennon was killed. He's always going to be remembered, at least for the next hundred years, as the greatest technology business leader of our time."

Microsoft co-founder and longtime rival, Bill Gates, said in a statement, "The world rarely sees someone who has had the profound impact Steve has had, the effects of which will be felt for many generations to come. For those of us lucky enough to get to work with him, it's been an insanely great honour."

whose ideas will shape the world for generations to come."

Dick Costolo, Twitter Chief Executive, tweeted: "Once in a rare while, somebody comes along who doesn't just raise the bar, they create an entirely new standard of measurement."

British industrial designer James Dyson: "Steve Jobs has shown that breakthrough products come from taking intuitive risks, not from listening to focus groups."

Analyst Shaw Wu said: "One frequent question is: what do we think is Steve Jobs' legacy? Our simple answer is that Apple is his legacy, just like Disney is Walt Disney's and General Electric for Thomas Edison. It is the culture of innovation, thinking different, risk taking, and execution that will live on."

Creative reactions

The sense of loss extends far beyond Apple. The impact of his work transformed multiple industries. In music, Mac-using artists praised the tools and the technology: "Thanks for the tools, the inspiration, the possibilities," wrote Trent Reznor of Nine Inch Nails. The Grammys

>> IN THE SPOTLIGHT

Forever young

Graham Barlow



Macformat owes a huge debt of gratitude to Steve Jobs. After all, without him our magazine wouldn't exist. The magazine has been covering the world of Apple since 1993, and I bet there's a fair few of you reading this who have also been using Macs for that long. These were the wilderness years for Apple, before Steve Jobs' return and before products such as the iMac and iPod put it back on the map. Steve had been forced out in 1985, and without firm leadership the company began to drift, and at one point looked like it was going under completely.

The fact that one man returning to the company could make such a difference to its fortunes never ceases to amaze me. People have called Steve Jobs return to Apple the greatest comeback in history. Steve had to make some tough decisions to save Apple, and those weren't always popular decisions. He killed a lot of products that were very popular with a lot of people, but he wasn't afraid to face the criticism. He simply believed that what he was doing was

"My favourite picture of Steve Jobs is back in the day with Woz, looking over his shoulder, tinkering with a circuit board"

the correct thing to do, and history would prove him right. It turns out it did.

My favourite picture of Steve Jobs is the black and white one of him back in the day with Woz, looking over his shoulder and tinkering with a circuit board. It's the first photo on page 76 this issue, if you'd like to take a look. It seems like two science geeks having an absolute blast making a crazy machine and not worrying too much if anybody else 'got it'. I often wonder, looking at that photo, if Steve had any idea what he was going to go on to achieve with those crazy machines. I don't think he did. He was just doing what felt right, and following his gut, like always.

The way those two co-founders of Apple stayed friends over the years was great. I like looking at that picture, it reminds me a lot of the words to Bob Dylan's *Forever Young*, which is as fitting tribute as any I could think of writing. Steve, may you stay forever young. ●

Graham Barlow often thinks he has invented a revolutionary, insanely great product then wakes up and falls out of bed.



In Cupertino, Apple fans left their tributes outside the company's HQ.



In China, an 'iVigil' was held, with fans lighting candles to remember.



Outside Apple stores, people left apples with a symbolic bite taken out.

tweeted, "Thank you for revolutionising the way we listen to music. Your vision will not be forgotten."

The UK CEO of the world's largest label, Universal, David Joseph, told *The Guardian*: "What [Jobs] did for digital music and encouraging people to pay for digital music was pioneering. He totally changed the landscape for us, and for our future."

The Jobs legacy to film brought plaudits from across the industry. Before returning to Apple, Jobs purchased Pixar from George Lucas, who said: "The magic of Steve was that while others simply accepted the status quo, he saw the true potential in everything he touched and never compromised on that vision."

Jobs' former Pixar colleagues John Lasseter and Ed Catmull said: "Steve Jobs was an extraordinary visionary, our very dear friend and the guiding light of the Pixar family. He saw the potential of what Pixar could be before the rest of us, and beyond what anyone ever imagined. Steve took a chance on us and believed in our crazy dream of making computer-animated films; the one thing he always said was to simply 'make it great.' He is why Pixar turned out the way we did and his strength, integrity and love of life has made us all better people. He will forever be a part of Pixar's DNA."

Financiers take stock

Apple's business was little affected. Shares tottered, but did not plummet at the news. In handling his battle against cancer, Jobs somehow managed to retain privacy, but we all knew of his condition. Years of declining health and Jobs' resignation as CEO in late August gave Apple investors

time to begin preparing for a future without his visionary leadership.

For Apple's remaining executives, led by Apple's new CEO, Tim Cook, that challenge has only now begun, though Apple appears to have invested heavily in succession planning. It is alleged to already have a Jobs-developed four-year product strategy. Cook may lack the charismatic impact of Jobs, but he has proven himself an excellent and committed company leader.

Preparing for the future

"Apple has done a good job of demonstrating that the leadership team in place is capable of managing the company just fine," said Wharton College operations and information management professor, Kartik Hosanagar. "A few years back, Apple and Steve Jobs were largely synonymous. With the decline in Jobs' health in recent years, other executives have taken on more responsibility. This has helped convince the community that the management knows what it is doing."

The future of the company now depends on its remaining executives working successfully as a team. There could be challenges for Cook: for example, a *BusinessWeek* report revealed that both Jonathan Ive and Apple's Mac hardware chief, Bob Mansfield, avoid meeting with Apple's VP iOS software, Scott Forstall, unless Cook is also there.

However, for the present, with market shares setting new records in all its sectors and a new iPhone configuration selling in its millions in countries worldwide, the investor community believes in the firm.

It sometimes helps to talk about people when you are grieving. Inevitably some of

» STOCK WATCH / Market reacts to the news

Well, the terrible but inevitable occurred; Steve Jobs passed away. The fact he lived so long with such a lethal condition was a miracle in itself but even Jobs was not indestructible.

It has been said that 40% of Apple's market capitalisation was down to the fact Steve Jobs was the CEO of the business. This metric, the value of the company in cold cash, makes it the most valuable company on the whole American stock market, surpassing even Exxon. The price ticket for apple is \$371,000 billion, a cool third of a trillion bucks.

This is, in many ways, amazing, as are most things that can be said about Apple. Yet, in the end, money talks and other opinions walk.

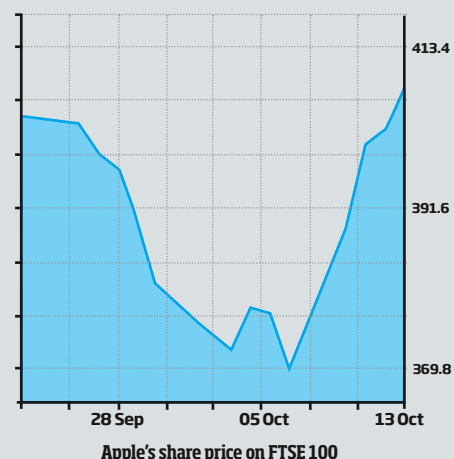
Much against the expectations of those who saw Steve Jobs as the genius that put Apple on top,

the share price has not cratered. Instead the price has actually risen, suggesting either that the market has already written down the Steve Jobs factor or that it is simply in denial.

All in all - the tragic loss of the genius that built the company and a veritable storm of competition against its core products - Apple seems impervious to all shocks.

Can nothing dent this juggernaut? You could point to its near \$90 billion dollars of cash in the bank and suggest that this is a good indication of the kind of momentum Apple has, which will tide it over against all mishaps. This is clearly what the market believes. Theoretically, the market is always right, so those that see Apple losing its shine may have a long time to wait.

Clem Chambers, CEO of ADVFN





A memorial has adorned the landing page of Apple's website since the news broke of Steve Jobs' death.

the many stories about Jobs were shared. Pixar Director, Lee Unkrich, tweeted a memory: "I once had a serious meeting with Steve Jobs while wearing this Halloween costume. He was completely unfazed," he wrote. "Just the two of us, in his office. He was not wearing a costume. I'd kill for a fly-on-the-wall photo."

Steve Jobs' eponymous authorised biography was published worldwide on 24 October. Written by Walter Isaacson with

The huge outpouring of emotion at the passing of Apple's longest-serving CEO reached people everywhere: from teens at the back of the bus to musicians all using iPods; and from the iPhone-using businessman to his iPad-using mum. During his life, Steve Jobs successfully built this product-based connection with individuals across the planet. This makes his words to Stanford University freshmen in 2005, even more telling:

"I once had a serious meeting with Steve Jobs while wearing this Halloween costume. Just the two of us, in his office. He was completely unfazed"

Steve Jobs, the book promises to reveal a host of interesting tales about the intensely private man. For example, when on a visit to Japan, Jobs noticed everyone at Sony was wearing a uniform, which made him think about bonding workers at Apple. In his own words: "I came back with some samples and told everyone it would be great if we could all wear these vests. Oh man, did I get booed off the stage. Everybody hated the idea."

While the idea of a uniform was rejected at Apple, it was the motive behind the famed Jobs uniform of black turtleneck and blue jeans. Apple's leader had hundreds of the turtlenecks stashed in a closet in his home. "I have enough for the rest of my life," he told Isaacson.

"Your time is limited, so don't waste it living someone else's life. Don't be trapped by dogma - which is living with the results of other people's thinking. Don't let the noise of others' opinions drown out your own inner voice. And most important, have the courage to follow your heart and intuition. They somehow already know what you truly want to become. Everything else is secondary."

Steve lies buried at Alta Mesa Memorial Park in Palo Alto, California. The death certificate said Steve, 56, suffered from a "metastatic pancreas neuroendocrine tumour" and died of respiratory arrest 5 October at 3pm PCT. His listed occupation was "entrepreneur".

We'll miss you, Steve. ●

>> ACROSS THE POND

News that hit me hard

Susie Ochs



Now it's hard to say anything about Steve Jobs that hasn't already been said. I never got to meet him, never shook his hand. But I've been in the same room with him a few times - at Macworld keynotes, once on the show floor, at WWDC keynotes, and press events.

Once he brushed by me in a post-event demo room as I was hopelessly engrossed in the just-announced iPad. Incidentally, that turned out to be the fifth total game-changer of a product Steve Jobs brought to market, after the original Apples, the Mac, the iPod, and the iPhone.

Another time I was at a press event at Apple's tiny Town Hall in Cupertino, and the guy next to me let his phone ring while Steve was talking. It rang three times before he turned it off! Steve glared in our direction and I was mortified, staring sideways at the guy, hoping Steve didn't think it was me.

I've seen him rock product demos and fume through botched ones. I recently found my handwritten notes from the first iPhone announcement in 2007 (the first words I wrote

"I'd tell Steve Jobs about my friend Jason, who's awaiting a liver transplant at 31 and is scared out of his mind"

were "black turtleneck".) I never knew him, but from using his products and watching him spin his magic on stage, I certainly wish I had.

So while I don't have any 'insider' insights for you, I can tell you this: when he passed away, I felt like I'd been punched in the gut. If I'd ever been able to speak to him, it wouldn't have even been about Apple products. I'd tell him about my friend Jason, who's awaiting a liver transplant at age 31, and is scared out of his mind. Or I'd ask him what it was like to find his birth family, since we're both adoptees - but I've never had the guts to go searching.

I'll never get the chance to ask him these things now, of course, but I do understand how his passing has hit people harder than they thought it would. He wasn't just a billionaire CEO; he was a man who loved his job, was extremely good at it, and inspired millions along the way.

I never met Steve Jobs, but I already miss him. ●

Susie Ochs is Senior Editor of MacLife. She is currently resting at home as she awaits the arrival of her baby. We wish her well.

Start up

► NEWS & OPINION ► INTERVIEWS ► GADGETS ► LETTERS

The iPhone 4S has landed

Introducing the smartest of smartphones on the planet right now



The iPhone 4S was introduced by new Apple CEO, Tim Cook, at an event hosted at Apple's Cupertino headquarters on October 4. It sold its first million within 24 hours of being made available for pre-sale. Apple also offered up new iPod products, defying expectation by keeping its iPod classic within its line-up. "For many users, this is their introduction to Apple," explained Tim Cook.

All eyes were on the new iPhone. "Despite competitors trying hard to copy the iPhone," said Apple's Marketing Chief, Phil Schiller, "they just haven't been able to do it. How do you follow up a hit product like the iPhone 4? With the iPhone 4S."

Initial reaction was muted. Critics seemed unwilling to look beyond the fact the essential design hasn't changed.

A typical reaction: "Apple announced improvements in the hardware performance and with the service layer, it has been let down somewhat by having almost no change in the user experience and in the industrial design. Unfortunately for Apple, this is happening at a time when competitors are aggressively bringing new products to market with superior user experience in the form of wider and better screen, intuitive UIs, and more integrated

» APPLE IN PICTURES / A new leader for a new era



» TIM WOWS THE CROWD

Apple's new CEO, Tim Cook, played to a nearly full house when introducing the iPhone 4S - there was just one empty seat at the front of the hall.

apps," said Informa analyst, David McQueen. However, Apple's customers still flocked to pre-order the new iPhone.

The new fifth-generation iPhone uses Apple's A5 processor - used in iPad 2 - delivering more speed and graphics power. Hardware improvements include an 8MP camera capable of capturing 1,080p HD resolution video and a reliable antenna.

The iPhone 4S is a worldphone, usable on any network. While it doesn't deploy LTE it can be used on CDMA and GSM networks. But it's the software that really appeals. Only the iPhone 4S offers Siri, the intelligent personal assistant technology Apple's been working on since acquiring it last year. Siri enables you to pose questions, ask for reminders and more, it will use location, mapping, email, and the internet to respond to whatever you ask it to do. You can speak naturally when asking Siri its questions, so if you ask what coat you should wear it will give you a weather forecast; it can also find contacts or figure out traffic information and more. Early indicators show Siri leads this new market.

» MORE NEWS



For even more on the Mac, iPod and iPhone, visit www.macformat.co.uk

Apple new iPod range introduced a new iPod nano (from £115), which features a redesigned UI, new clock faces and better fitness features, such as Nike+ integration and an FM radio. The 160GB iPod classic (£199) and the £40 iPod shuffle remain available. The iPod touch (£169) now runs iOS 5, so it runs iMessage, Game Center, Notifications and Wi-Fi syncing to iTunes and integrates with iCloud.

"iPhone 4S with iOS 5 and iCloud is a breakthrough combination that makes the iPhone 4S the best iPhone ever," said Schiller. "While our competitors try to imitate iPhone with a checklist of features, only

iPhone can deliver the breakthrough innovations that work seamlessly together."

iCloud is Apple's suite of free cloud-based services, which in the UK include iTunes in the Cloud, Photo Stream and Documents in the Cloud. This service will automatically and wirelessly store your content and push it to your iOS devices, Macs and PCs. Apple's introduction of iCloud and iOS 5 saw hiccups with complaints of slow download speeds, 'bricked' iPhones and lost contact data. ●

"It's what the sci-fi buffs have been expecting..."

Introducing the latest iPhone 4S.



Apple talk

Who's saying what?

> Tim Cook

www.apple.com

"I love Apple."

Apple's new leader wears his heart on his sleeve.

> John Donovan

www.att.com

"He knows what he wants and he's driven to get it."

AT&T CTO on Apple's iOS chief, Scott Forstall.

> Dr. Dre

www.beatsbydre.com

"I am not nervous about anything. I am trying to be number two to Apple, and number two to Apple is not a bad position to be in."

Hip-hop mogul has a digital dream.

> Gabe Newell

www.valvesoftware.com

"I suspect that Apple will launch a living room product that will redefine people's expectations really strongly and the notion of a separate console platform will disappear."

Leading games developer expects more.

> Gene Munster

www.piperjaffray.com

"We believe Apple may add movies and TV shows purchased or rented in iTunes to the iCloud service, which could be viewed on a TV."

Apple has a plan to change television.

HOT OR NOT?

The latest word from the Apple rumour mill

HOT: New look for next iPhone

With the iPhone 4S looking virtually identical to the iPhone 4, Apple will need to do something visually very different for the next iPhone. It could be great.

HOT: Apple in the front room

There's a lot of talk about a living room device from Apple, either integrated with a TV or as a standalone box like the Apple TV. We think we'll see it in 2012.

NOT: iPhone 5 before Christmas

In the words of our Production Editor Tim, "No way!". Apple are unlikely to release the iPhone 5 before well into next year. The backlash from 4S owners would be huge.

NOT: Woz to rejoin Apple

We've heard rumours that the other Steve may now be thinking of rejoining Apple in a larger role. We don't think this will happen - Woz is too much of a maverick.



The all-new Kindle family from Amazon brings the Fire.

>> TABLET WARS

Amazon put the burn on Apple

New Kindle Fire could be serious competition

After months of speculation, the Amazon Kindle Fire has been officially announced at an event in New York, marking the first time the company has entered the Apple-dominated tablet market proper.

The successor to the Amazon Kindle is a 7-inch device that comes with Android, albeit a version that has been heavily altered by Amazon to make the best use of the company's e-shopping strengths.

The screen is an IPS display that's made from Gorilla Glass, it houses a dual-core processor, and weighs 413g.

There is a tablet-optimised shopping app on board - this is said to comprise simplified and streamlined pages, so it is easier to buy stuff on than the actual Amazon website.

You will be able to multi-task on the tablet too - so listening to music and reading at the same time is possible. You can switch between actions by bringing a screen down from the user interface.

When it comes to Amazon Kindle Fire specs, Amazon has decided that a number of things are not needed on the tablet, which are found on other Android tablets. For instance, there is a lack of camera, a microphone or 3G, but there is Wi-Fi on board. Those who purchase the Amazon Kindle Fire will be given a 30-day trial with Amazon Prime and there will be a number of apps accessible on the device, including

Pandora, Twitter, Facebook and Netflix.

Amazon has also created a new browser for the Kindle Fire. Called the Silk browser, it harnesses Amazon's cloud computing service to make browsing the web a speedier

experience - offloading some of the harder CPU-heavy tasks to the cloud and giving the end user the best performance.

The biggest news about this device though is how much it will cost. The Amazon Kindle Fire price has been set at just \$199 in the US. This is way below the price of any of its rivals. A UK release and price still hasn't been announced. ●

>> APPLE IN NUMBERS

4 million

Number of iPhone 4Ss sold in its opening weekend.



Apple on TV

The Mac is ready for its close-up

Thanks to readers Pete Owens and Edward Guest for spotting Macs liberally on show in the latest series of BBC's *Spooks*. With so many iMacs, MacBook Pros, iPads and iPhones M15 looks like a great place to work. If you've spotted a Mac on television, then email macformat@futurenet.com and tell us all about it!

>> iOS 5 NEWS

Newsstand opens its doors in the UK

Dedicated place for digital magazines unveiled

The arrival of iOS 5 in the UK has brought with it a number of decent features for your iOS device, but among the more intriguing is *Newsstand*.

This feature finally offers up a dedicated place for magazine purchasing on your iPad and there are a number of big-name UK mags and newspapers that are now available through the service.

MacFormat is available on *Newsstand* and you can choose to buy a single issue or subscribe. Also from Future Publishing – *MacFormat*'s publisher – comes *T3* and *Total Film*, with *T3* offering up 360-degree product shots and *Total Film* arriving with embedded trailers and the like.

Condé Nast has made *Vanity Fair*, *GQ* and *Wired* available on *Newsstand*, while Hearst Publishing has *Elle*, *Harper's Bazaar*, *Cosmopolitan* and *Runner's World*. Other publications that are available are *The Guardian* and *Metro* newspapers.

At the time of writing, *T3* magazine is at the top of the *Newsstand* charts, a position it held when it was sold as a standalone app on the App Store. *MacFormat*'s sister title *Tap!*, *The iPhone* and *iPad Magazine* is also available with interactive features such as preview videos, 360-degree product spins, quizzes and more.

To find out more about *MacFormat* on *Newsstand* see page 95. ●



>> IPHONE NEWS

Siri ported to iPhone 4

Developer proves personal assistant app can run

The Siri personal assistant application for the iPhone 4S has been ported onto the iPhone 4, supposedly proving that the older hardware is capable of running the app. Developer Steven Troughton-Smith installed the Siri and Springboard files from the 4S onto an iPhone 4 and was able to get it working on the previous generation device. 9to5 Mac, which is working with the developer, reports that the app can recognise your spoken commands and speak back to the user. It also works in both standard view and on the keyboard dictation view.

Naturally, Apple is not authenticating commands to its servers when using the iPhone 4,

but that's the only thing preventing the Siri being fully functional on the device.

Apple has said that Siri is only available for the new iPhone 4S with the inference being the more powerful A5 processor is required to handle the app.

The port, which is still being perfected, at least proves that Siri can run on the iPhone 4, if Apple ever decides to open it up to the older device. We'd still be extremely surprised if it did make it available for older hardware though. In the

meantime we can at least dream.

Check out Siri in action on the iPhone 4 in the video at <http://bit.ly/rbK0gx>. ●

>> APPLE IN NUMBERS

20 million

Number of iCloud sign ups in the first five days of release.

Virtual Private Servers

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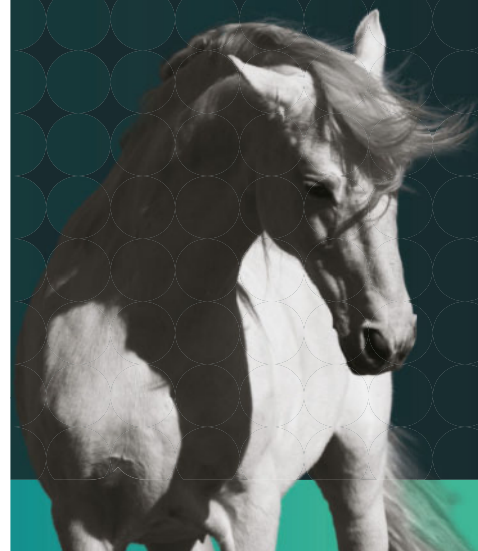
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Win! A Mac mini & a copy of Anime Studio Pro 8 or Anime Studio Debut 8!

Grab yourself a copy of the Mac's leading animation tool

Do you want to make exciting cartoons on your Mac but don't know where to start? Then you need *Anime Studio*. Available in two versions, the entry-level *Debut* app and the more advanced *Pro* package, it will have you animating in no time.

Anime Studio Debut 8 has a new Character Wizard that gets you started quickly. You can create your own art with intuitive vector-based draw and paint tools, or use ready-made content from the application's Library. When finished, you can export your animations in the most popular web and video formats, or

upload and share them on YouTube or Facebook, directly from *Anime Studio*.

Thanks to Smith Micro, we've an exciting *Anime Studio* prize bundle to give away. One lucky winner gets a brand-new Mac mini and a copy of *Anime Studio Pro 8*, with 10 runners-up bagging a copy of *Anime Studio Debut 8*.

The Question

To stand a chance of winning one of these superb prizes, just answer this question:

Which of the following characters are associated with cartoon animations?

- A) Mickey Mouse
- B) James Bond
- C) Doctor Who

For more information on *Anime Studio*, and more great Smith Micro products, go to www.smithmicro.com.

» HOW TO ENTER

- To enter, text ANIME, followed by a space then your answer (A, B or C), space, then your name and address to 87474; or enter via our website at www.macformat.co.uk and click on the **Competition** link.
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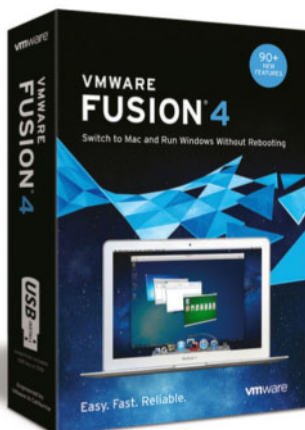


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Want to share your Mac setup with us? Send a photo of your kit to macformat@futurenet.com

MacFormat readers share their beloved Mac setups

Apple MacBook Air

The MacBook Air is great to take on Gurcan's travels. This is the 2.13GHz Intel Core 2 Duo version.

LED Cinema Display

Ideal for viewing photos snapped by Gurcan in his home city of Istanbul.

Harman/Kardon GLA-55 speakers

These stylish, portable speakers are ideal for DJ spots at friends' houses.

Mac Pro

Gurcan's Mac has plenty of power, thanks to its twin 2.26GHz Quad Core Intel Xeon processors.



>> PROFILE

Name: Gurcan Aydogan

Occupation: Retired bank executive

Been using a Mac for: Three years

Favourite hardware: Mac Pro, iPhone 3G

Favourite software: Adobe Lightroom 3, Photoshop CS4, Algoriddim djay

Like the snow leopard that's displayed on screen, Gurcan Aydogan's Mac setup is beautiful, poised and very, very powerful. At its heart is the mighty Mac Pro – an early 2009 model with two 2.26GHz Intel Quad Core processors and 8GB of RAM. This has been teamed with an LED Cinema Display, plus a wireless Magic Mouse and Apple keyboard. However, what's surprising is that this setup isn't located in a creative design or video studio, but in the home of a retired bank executive. He's not just passionate about his many hobbies – he also wants the best.

"I used PCs at home and at work for years before I discovered the Mac," Gurcan says. "I find my Mac is incomparable to them. It's really secure and you don't experience any program crashes: it's like a living

"This setup isn't in a creative design or video studio, but in the home of a retired bank executive"

organism that can cure itself. Plus, the Mac Pro's speed is enormous."

Gurcan's Mac setup certainly enables him to make the most of his main hobby, photography. He finds the LED Cinema Display ideal for viewing and editing his photos. He uses *Adobe Lightroom 3* and *Photoshop Creative Suite 4* to process RAW and DNG files, and the Mac Pro makes it a breeze to batch convert dozens at a time. Gurcan also likes the Mac Pro for its considerable expansion opportunities. It has enough space inside for up to four

large-capacity hard disk drives, making it ideal for Gurcan's photo archives.

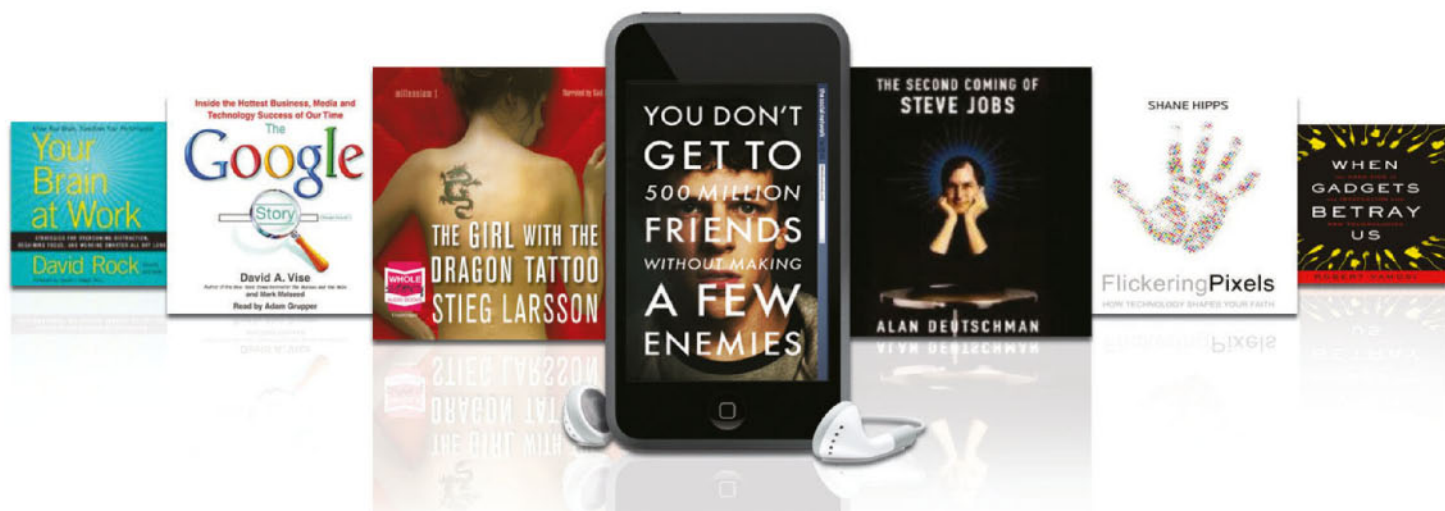
When he's not taking pictures of his home city of Istanbul, landscapes or photos, Gurcan likes to fire up *DJay for Mac* and entertain his friends – at both his home and theirs. He's especially pleased with the Harman Kardon GLA-55 speaker system he partners with his Mac:

"It's outstanding," he says. "Furthermore, it's so portable that I can handle my DJ role at friends' house parties by taking my iMac and a pair of speakers with me."

When he's not doing any of those things, Gurcan enjoys toying with his Marklin model railway, painting and travelling. But even then the Mac is never far from his thoughts:

"I'm planning to buy a Lion family pack from the Apple Store during my next visit to Paris," Gurcan says. ●

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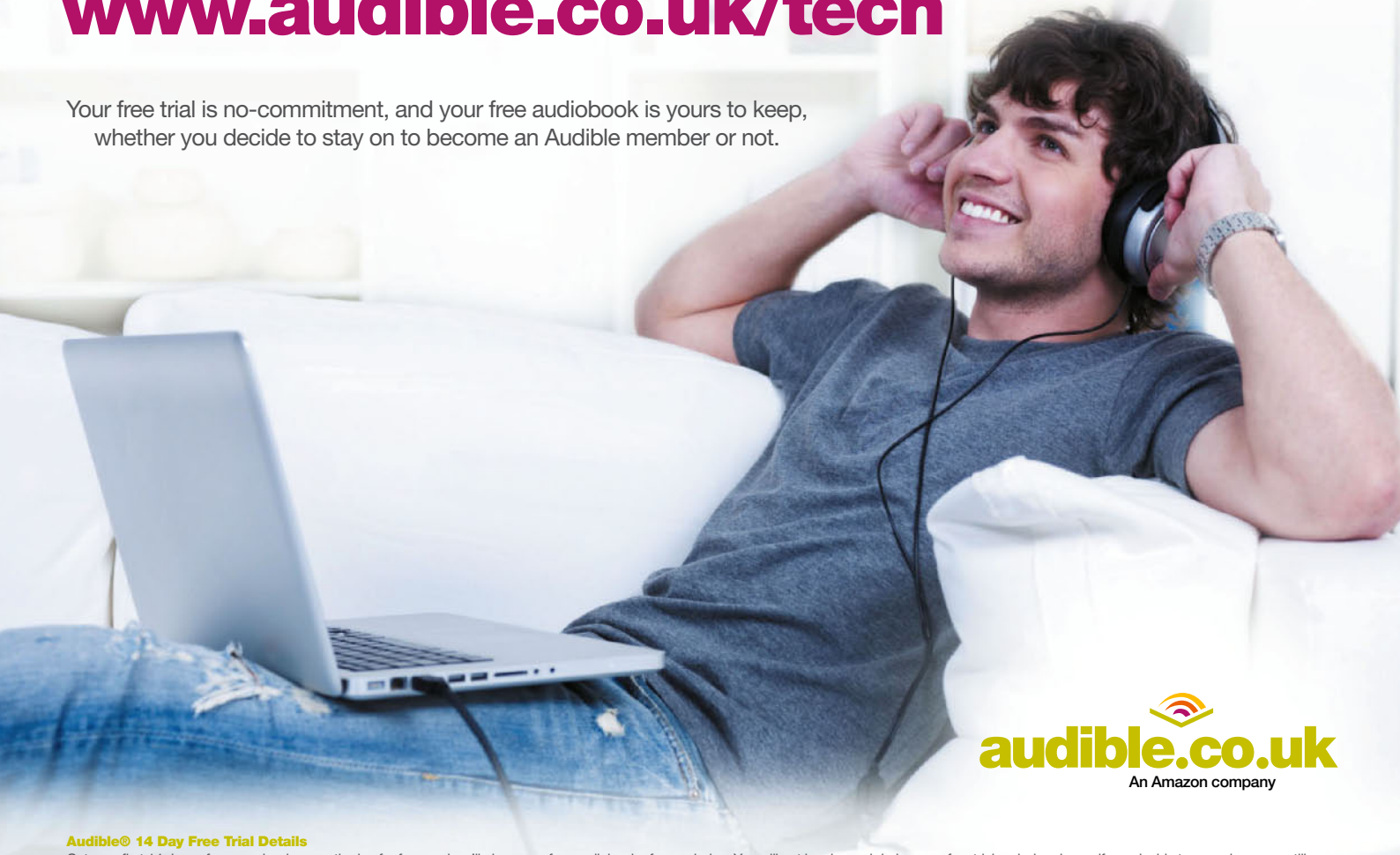


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Above: Perlman plays Virtua Tennis using OnLive.

Top right: Play OnLive on your HDTV, using a MicroConsole.

Right: A gamer's OnLive profile.

Below: The OnLive controller and the MicroConsole, which you only need if you want to play on your HDTV.



I use my Mac for revolutionising videogames

Words: Ian Osborne



Former Apple scientist, QuickTime creator and now OnLive founder Steve Perlman



>>>PROFILE

Name: Steve Perlman
Location: California, USA
Occupation: Founder and CEO of OnLive, Inc
Macs used: MacBook Pro, MacBook Air
Web: www.onlive.co.uk

MacFormat: Who are you?

Steve Perlman: I'm a former Apple Principal Scientist, and I led the team that created *QuickTime*. My latest project is OnLive, a cloud gaming service that runs on Macs, PCs, tablet devices and even your TV.

MF: And your Apple gear?

SP: I have a 2011 MacBook Pro and a 30-inch monitor. I'm getting a Thunderbolt display soon. I also have a 13-inch MacBook Air, as I find the 11-inch model a little too small. I also own quite a few iPads, and even a 128k Mac [the original Macintosh, launched in 1984].

MF: What inspired you to develop QuickTime?

SP: We were developing QuickScan, a graphics animation and video

decompression chip. We built a software simulation of its algorithm, which we called Road Pizza. When the simulation ran well in real time, we built *QuickTime* from there.

MF: Why did you leave Apple?

SP: As Apple grew bigger, it also grew more political. It was getting harder and harder to get approval for projects based on their technical merit. I would have stayed if the company had kept the freedom to innovate, but this culture never really came back until Steve Jobs returned.

MF: Did Macs help in developing the OnLive gaming system?

SP: Yes, alongside Windows and Linux PCs. New staff members can choose any computing platform they like, and many choose Macs.

MF: What would you say are OnLive's key strengths?

SP: That's a long list. Gamers can try almost any of over 150 OnLive games for half an hour before buying, and also rent them for three or five days. You can talk about a game's qualities using its online chat facilities, and give it a thumbs-up or thumbs-down. It's great to be able to play a game across all formats, retaining your save position, and a universal version of the hand controller is coming soon.

MF: And the future?

SP: Expect continuous expansion of our games range, and increased playability on tablets such as the iPad as more and more titles are written with touch controls in mind. We're planning TVs and Blu-ray players with OnLive built in too. ●

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Gadgets

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Here's what Apple is up against



▲ Native Union Play

£50 www.nativeunion.com/uk

What is it? This is a really fun way to record video memos. With a high-quality video camera, a sophisticated audio recording system and a 2.4-inch colour LCD screen, Native Union's Play lets you record time- and date-stamped messages for yourself and others. Its 256Mb of memory gives three minutes of total recording time, and its magnetised backing means you can stick it to the fridge and leave messages for the rest of the family.

When's it due? Out now.

Why are we excited? The world won't end if we don't get one for Christmas this year, but it looks great fun to use. A really exciting way to send messages.

▼ Nikon 1 J1 Compact System Camera

£700 www.nikon.co.uk

What is it? It's EVIL. Not Satanic or wicked, but EVIL - Electronic Viewfinder, Interchangeable Lens. This particular EVIL camera features a Nikon CX-format super high-speed AF CMOS sensor, fast and quiet auto focus, image stabilisation and superior low-light performance. It comes bundled with 10-30mm and 30-110mm lenses, and can record video in 1080p.

When's it due? Out now.

Why are we excited? Ideal if you want more than a compact, without the bulk and expense of a DSLR.



◀ Epson MG-850HD

£650 www.epson-europe.com

What is it? It's the first HD-Ready 3LCD home cinema projector to feature an iPod docking station. It has a brightness of 2,800 lumens and a high contrast ratio of 3,000:1, keeping pictures bright and sharp. It can be connected to DVD and Blu-ray players, set-top boxes and games consoles.

When's it due? Some time in November.

Why are we excited? If you own an iOS device with a built-in camera, the MG-850HD helps you get the most out of it. Record home movies and play them back on a home cinema set-up by plugging your iPod, iPhone or iPad into the projector.





▲ Griffin StompBox

\$100 (£61) www.griffintechnology.com

What is it? A professional-quality pedalboard for iPad. Used in conjunction with Griffin's iShred LIVE app, the StompBox allows musicians to use a compatible iOS device as a portable, programmable effects board and practice amp while recreating the experience of an actual pedalboard. Connect it to your guitar and use it to control your effects in the app, just like the pros.

When's it due? Out now, but you have to pay UK shipping costs.

Why are we excited? We never cease to be amazed at the different things inventors and manufacturers do with iOS devices. The StompBox enables iOS guitarists to switch effects on and off while you keep on playing without having to take your fingers off the frets.



▼ AKG K3003

£1000 <http://uk.akg.com>

What is it? How much would you pay for a decent set of earbuds? £20? £50? £100?

That's not enough for a set of AKG K3003s.

The price above isn't a misprint - they really do set you back a grand. Buy them from Harrods. They feature inline controls, a 10Hz-30kHz frequency range and six pairs of tips.

When's it due? Coming soon.

Why are we excited? Can a set of earbuds ever be worth a thousand pounds? They look great, but at that price, they'd better sound extremely good too. Imagine how gutted you'd be if you left them on the bus...



◀ AQ Audio AirPlay Smart Speaker

£200 www.aqaudio.com

What is it? Available in red or black, AQ Audio's AirPlay Smart Speaker is truly wireless. You can connect it to your home network for cable-free AirPlay audio streaming and internet radio, and it can be powered by a built-in rechargeable battery, so you don't need a power cable either. This battery lasts for 30 hours when connected to your audio source through line-in, or ten hours over AirPlay. The 24w unit features two channel-separated drivers, and if you buy two, you can set one as the left speaker and the other as the right.

When's it due? Late November.

Why are we excited? It looks great, and we love the convenience afforded by AirPlay. As it can be powered using an internal rechargeable battery as well as the mains, it's also very portable.

Feedback

>> CONTACT US

Whatever your Mac-related cares, concerns or calamities are, let us know about them by contacting us on the following email address: macformat@futurenet.com

Let us know what you think about your Mac, MacFormat and everything Apple

MF on the iPad

About six months ago, I subscribed to *MacFormat* magazine using the Zinio service so that I can either read it on my Mac, iPhone or iPad 2. I generally read it on my iPad 2 when I'm travelling, in bed or relaxing in my armchair.

My eyesight is not as good as it used to be and to switch from page to text is a godsend for me, a brilliant idea. Also, it's so easy to navigate through the

magazine using the bottom of the page to slide to and fro on the iPad at fast speed, or to simply tap on the page of choice, which is excellent.

The download of the *MacFormat* magazine has been the best thing for me and if I lose my mag, it's so easy to download the magazine again. Thanks for this feature, and thanks for a great magazine and to all the staff at *MacFormat*.

Anthony J Howe



Look out iPads, our *MacFormat* app is now on Newsstand ready for reading!

MF replies: Thanks Anthony - we find the iPad to be the perfect digital device to read *MacFormat* on. In addition to Zinio, there is also a new way to subscribe to *MacFormat* or buy single issues for reading on your iPad or iPhone - Apple's new *Newsstand* feature in iOS 5. Search for *MacFormat* on the App Store, then download the free app. The app will then appear in

>> STAR LETTER / The story of an Apple missionary

Two years ago I bought my first iPhone. A year later, I bought my first Mac. Since then I've become a full-time Apple missionary, preaching to all my PC-owning friends from *The Good Book of Jobs and Ives*.

But how, in good faith, can I justify a Mac when a similarly specced PC can be bought for £500 less? The truth is I cannot. But then I realised that it's the little things that make the Mac the marvel that it is.

The sublime hardware. The security, stability and unparalleled usability. Imagine, bloatware magically replaced by the *iLife* suite! And touches like the MagSafe connector that no other manufacturer could possibly dream of inventing. And with the release of Lion, innovative features like versions, full-screen apps and mission control combine with

amazingly intuitive gestures to make computing on the Mac a genuine joy. Not many PC owners can claim that!

The problem is, when people compare a Mac to a PC they only look at the bigger picture - they surmise that there is nothing a Mac can do that a PC cannot. So why pay more? They forget about the little things. In fact, they don't know about the little things because they only become apparent after you've owned a Mac.

Therein lies the problem. Until you've owned a Mac you cannot appreciate those magical touches and the obsessive attention to detail within its DNA that lifts it high above any other computing experience. This makes it difficult to convince friends that buying a Mac is the best decision they'll ever make.

Despite this I'm still evangelising and one by one my friends are gradually converting. And in spite of their initial protests, like myself, they now vow to remain Mac users forever. Never has the saying 'the sum of parts is mightier than the whole' been more apt than for the Mac.

Many thanks for listening to my sermon!

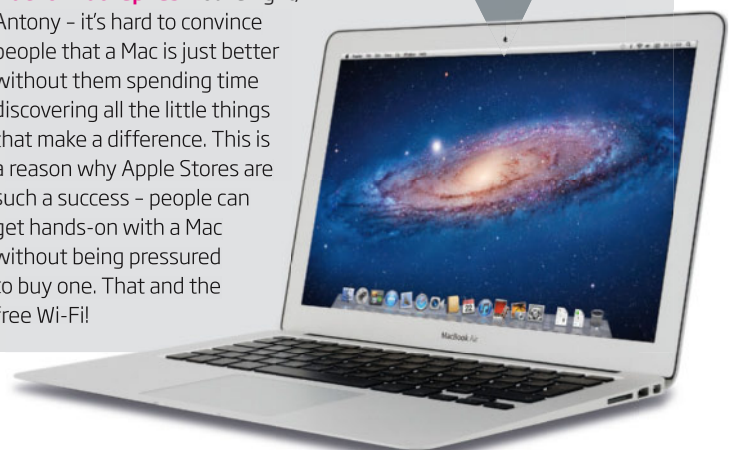
Antony Spence

MacFormat replies: You're right, Antony - it's hard to convince people that a Mac is just better without them spending time discovering all the little things that make a difference. This is a reason why Apple Stores are such a success - people can get hands-on with a Mac without being pressured to buy one. That and the free Wi-Fi!

>> STAR LETTER

Email all your letters to us at macformat@futurenet.com. If yours gets picked as the *MacFormat* Star Letter, you'll be sent a fantastic DTT Deluxe.

Almost impossibly tiny, this little USB device gives your Mac powerful digital TV reception.



your *Newsstand* folder and you can use it to purchase individual issues or subscribe.

The text-only version of each page you mention is a Zinio-only feature, but you can zoom in to the screen on both digital versions using a pinch gesture.

The *MacFormat* app also works on devices that haven't been upgraded to iOS 5, too. We should note that this is a separate system to Zinio and you can't transfer subscriptions or purchases between the Zinio and *MacFormat* app systems.

Last chance Lion

Although a very useful article in the October 2011 edition on creating a Lion boot drive, it did not say what to do if you had already installed Lion from the App Store and therefore do not have the install file on your Mac.

I was able to download Lion again by doing the following: download OS X Lion from the Mac App Store then press and hold down on the  key on your keyboard as you load up the Mac App Store. With the  key still pressed, go to 'Purchased' within the Mac App Store. Click on Install and enter your password - OS X Lion will now begin to download again. Hope this is of some use.

Andy Horton

MacFormat replies: Thanks Andy, that's a helpful little tip!



Using Andy's tip you can re-download OS X Lion for a second time.

An iAdventure

I recently left my iPhone 4 on a London bus. I discovered this as the bus was pulling away, so I rushed home and turned on my computer and was able to locate my iPhone. It seemed to be located where I got off the bus, so I thought maybe I dropped it. I rushed out of the house and got into the car taking my iPad 2 with me. As I was rushing out, I downloaded the *Find My iPhone* app and was able to see that my iPhone had moved on.

The iPhone was still on the bus, but it had a good half an hour head-start. I spent the next two hours weaving in and out of traffic, slowly catching the bus up until it stopped at the depot. As I was chasing, I sent an alert to the bus to ask whoever had the phone to contact me on my BlackBerry. I heard nothing. I knew in the

back of my mind that if I was unsuccessful in finding the phone, I could remotely wipe all the information and already had all my information backed up at home. Thankfully, I was able to get it back from the driver to whom it had been handed in to. He had got my message, but had been unable to ring back because he was driving. Apple has thought of everything - I would never have found my iPhone otherwise!

Edward Guest

MF replies: *Find my iPhone* is a great app. We'd recommend setting it up to anybody with an iPad, iPod touch or an iPhone. If you're on iOS 5, then login to iCloud with an Apple ID - and you'll find it as an option in Settings. If you have an older version of iOS then download the free *Find my iPhone* app from the App Store. ●

» APPLE EVENTS / What's going on?

06
DECEMBER

MACFORMAT Issue 242 6 December

Get your eyes and mind around the latest news, information, features and reviews from the world of Apple.

APPS WORLD, London 30 November-1 December

London event for apps developers across multiple platforms. Areas for developers, mobile operators and TV apps. Expect keynote speeches and advice from the experts.

CES, Las Vegas 10-13 January 2012

CES is the annual event that is constantly overshadowed by whatever product or service Apple is expected to announce next (Apple doesn't attend).

BETT, London 11-14 January 2012

The world's leading technology-in-education show transforms the UK capital into a hotbed of Apple-related solutions, technology and resources.

MACWORLD CONFERENCE AND EXPO, San Francisco 26-28 January 2012

The Apple event attended by customers and industry alike. However, Apple no longer takes part in the show.

MOBILE WORLD CONGRESS, Barcelona

27 February-1 March 2012
The leaders in the world of mobile technology and app development gather in Spain for this exciting event.

Twitter talk

From the Twittersphere

We asked:

Are you happy with the iPhone 4S or are you holding out for the next iPhone?

@i_CSSA

"I would wait. I just got an iPhone4 and I don't feel like upgrading right now just for the sake of Siri."

@AndrewFysh

"Shame there is no redesign, but internal improvements more than make up for that! I will be upgrading."

@pingors1

"No external changes and already using iPad 2. Gonna hold out for a bigger screen."

@hughjohnson

"I will be upgrading. The camera/video and memory upgrade makes it worth it. No outer design change saves on accessory costs."

@_dreza

"I'm still rocking a 3GS. Will wait for it to die before I upgrade... Sorry Apple!"

@ApplePriest

"Purchasing the iPhone 4S and will purchase the iPhone 5 next year as well."

@lowenna_I

"I know some are disappointed but I'm getting my mitts on one ASAP to replace my 3GS."

@arsenicsam123

"Not happy that there's no new design, but might get one for the camera and Siri!"

You can find out what we're up to each month by following the team at [Twitter.com/MacFormat](https://twitter.com/MacFormat)

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>> 50 OS X TRICKS



Words: Nick Peers Illustration: Mike @ MagicTorch

50 magical tricks for Mac OS X

Discover new ways to speed up,
simplify and improve your Mac
experience with these essential tips

Apple goes to great lengths to make your Mac as easy and as intuitive to use as possible, but that doesn't mean there aren't ways in which you can improve your experience even further. Perhaps you've not yet discovered some helpful features that could change the way you use your Mac, or maybe you don't like the way certain parts of your Mac operate.

You might be wondering what's new and improved in the latest revision of OS X, Lion, or you may have discovered certain 'improvements' you'd rather do without. Whether you're new to Macs and looking for a friendly guide, or a long-time Mac user who's hoping to glean some new

approaches to familiar tasks, there's a tweak out there to change the way you use your computer for the better.

In this feature we'll reveal 50 different tips and techniques for getting the most from your Mac. We'll cover fundamental aspects of using your Mac, from using *Finder* to browse your files, to switching between desktops using Mission Control. We'll even show you how to give your operating system a lick of paint with some handy customising pointers.

All of the tips in this feature work with Lion, but the vast majority also work with Snow Leopard too. So sit back and prepare to enhance the way you use your Mac.



Get fast folder access



If you frequently access a specific folder, add a convenient link to it in the *Finder* sidebar. Open *Finder*, locate the folder in question and then drag it to the sidebar's **Favorites** (Lion) or **Places** (Snow Leopard) section. Rearrange icons by dragging and dropping them in the desired order. Once that's done, clicking this link jumps straight to that folder's contents in future.

Streamline the Finder sidebar



Too many unwanted items appearing in the *Finder* sidebar? You can strip them out by opening *Finder* and choosing *Finder > Preferences*. Select **Sidebar** and you can untick those items you rarely use. You'll also find one option is de-selected by default under **Devices** - tick this if you want one-click access to all of your computer's drives and network shares from the sidebar.

Make use of Recent Files



Your Mac remembers recently opened applications, documents and servers. So if you want to quickly reopen something you were just working on, click the **Apple** menu and choose **Recent Items** to select it from the list. Many applications also store a recent documents list too, accessible from their **File** menu, **Open/Save** dialog boxes and - in Lion - when you right-click an application icon on the Dock.

Create network drive shortcuts

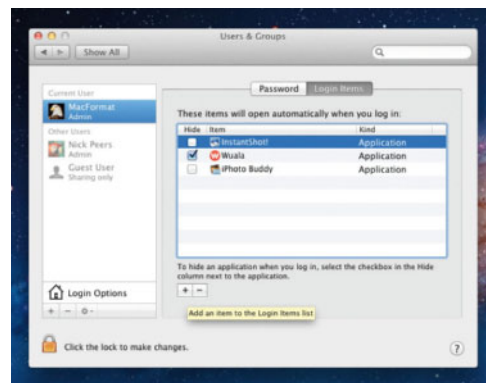


Save yourself time connecting to favourite shared folders by creating shortcuts to them. Open *Finder*, choose **Go > Connect to Server** and connect to the shared folder. Once its icon appears on the desktop, right-click it and choose **Make Alias**. Use this shortcut to connect to the folder in question via a quick double-click in future.

Manage what starts with your Mac



Do certain programs you rarely use insist on starting with your Mac? Or maybe you have a number of applications you always use that you'd like to start automatically when you first log on each day, saving you the bother of doing so manually. To manage your startup items, open *System Preferences > Users & Groups*. Select your user account and click the **Login Items** tab to see what's starting with your Mac. Unwanted items can be removed by being selected and then clicking the '-' button. To start a favourite application with your Mac, click the + button instead, then click the **Application** link under **Favorites** to locate the app you want to launch at login time. Select it and click **Add**. If you want the app to start in the background, tick the **Hide** box before closing *Users & Groups*.



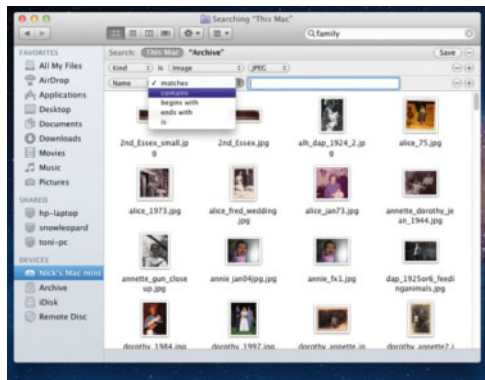
Take control of what starts with your Mac by using the **Login Items** part of *Users & Groups* (*System Preferences*).

A smarter way with folders



Smart folders enable you to build up customised folders containing files of a certain type, name or whatever criteria you choose. The files are left in their original location - instead the smart folder is basically a set of links to those files, so you can have the same file contained in more than one smart folder without creating copies to clutter up your hard drive.

Smart folders are created by saving the results of a search you've performed, and they can be created in a number of ways: choose **File > New Smart Folder**. Type your search term - a name, for example - then click the + button to start adding filters to restrict what files are displayed: for example, to search only for image files, choose **Kind** followed by **Image**. Add more filters if you wish. Once the results are to your satisfaction, click **Save**, give your smart folder a name and leave **Add to Sidebar** ticked if you want to be able to access it from the *Finder* sidebar.



Smart Folders can be as simple or as complicated as your needs demand. That's partly why they are so useful!

Window management tweaks



Resizing application and *Finder* windows can be a bit tricky, which is why Lion has introduced a number of great new features that will appeal to many. First and foremost, you no longer need to grab a corner of the window to resize it - you can now resize by clicking and dragging on any part of the window edge.

If your window is the right aspect ratio, but the wrong size, hold down the **Shift** key as you drag it, and it will resize proportionally. If you'd like to make it wider or taller at both ends, hold the **Command** key when you click and drag one edge, and the other edge will resize at the same time too.

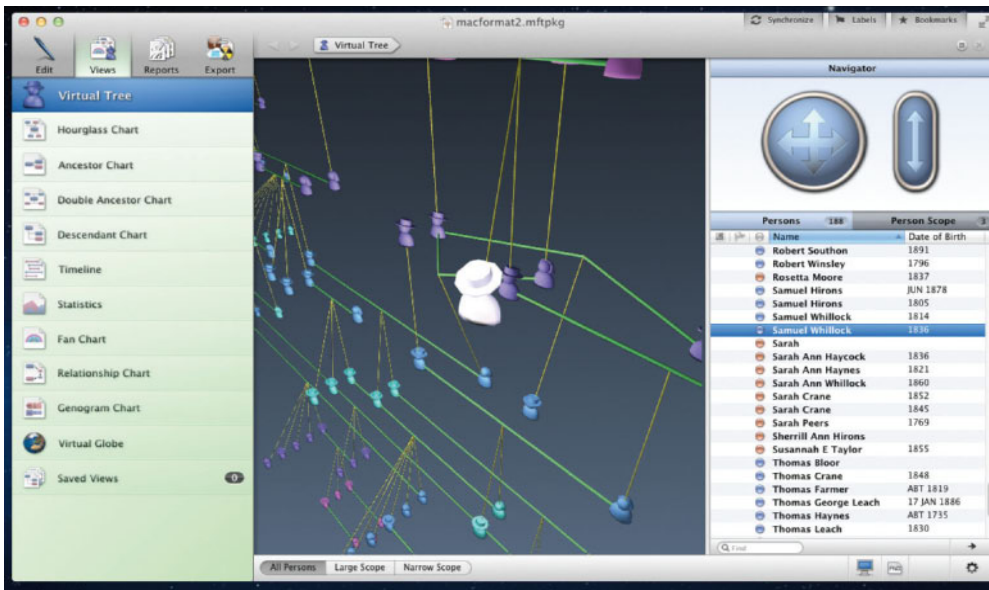
You can also move windows when clicking on an edge by first dragging in the wrong direction - for example, drag up or down when clicking on the left or right edge. Once it's moving, you can drag the window in any direction.

Resize an app to full-screen



Lion introduces full-screen support, which allows supported apps to take up the entire window. Not all apps are compatible, and Snow Leopard users may be feeling a little out in the cold. One workaround is to install a free program called *Right Zoom for Mac* (www.macupdate.com/app/mac/30591/right-zoom). This little gem 'fixes' the green zoom button in selected applications or *Finder* windows, so when clicked the window will always resize to the full available width and height of your desktop. It's not as good as full-screen mode, but it's a decent substitute.

Once downloaded, unzip *Right Zoom* and drag the app to your **Applications** folder before launching it. You'll be prompted to configure it before use: tick **Activate Right Zoom** to get started and work your way through the options, which allow you to restrict its use to specified apps or when you hold the **Command** button as you click the green maximise button.



You can configure the Right Zoom utility to work with only those applications you want it to.

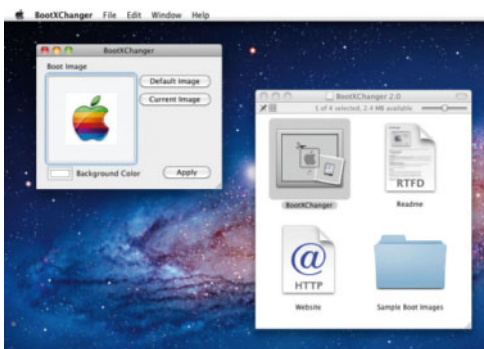
Revamp the startup screen



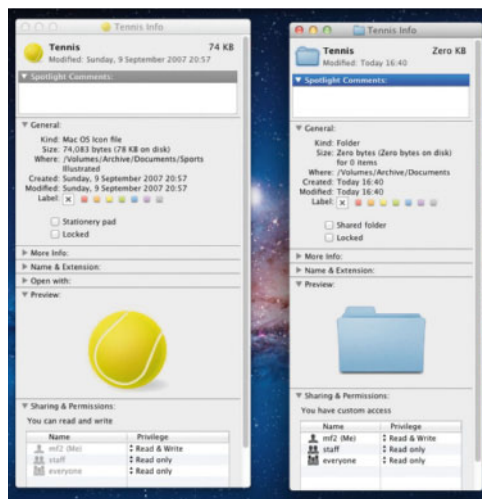
Fancy changing the background colour and logo that appears when your Mac boots? It's a simple procedure with a free tool called *BootXChanger* (<http://namedfork.net/bootxchanger>); it sadly doesn't work with newer Macs including the 2011 MacBook Pro, Air and Mac mini. It should work with older Macs, though, even those running Lion.

BootXChanger is refreshingly simple to use, considering what it does. Follow the link above to download the app. Once that's done, open it and then drag your choice of logo – nine alternatives are supplied in the Sample Boot Images folder – onto the program window. Next, choose a new background colour, click **Apply** and reboot to see the fruits of your handiwork.

You can use any square PNG image – try to keep the size down below 512x512, or as little as 90x90 if possible – but we recommend using the Chrome Apple logo with a white background for a really classy startup look.



Drag, click, done: a quick way to change a Mac's boot logo.



Spruce up your folder and files with some new icons.

Customise file and folder icons



Icons help identify what's going on, but sometimes you might feel uninspired by a particular icon being used, or find folders hard to find in a sea of identical-looking icons. The good news is that customising your icons is a simple affair with two basic choices. The first is to assign a colour label to the selected folder or file name – choose **File > Get Info** in Snow Leopard, or simply pick a colour label from the **File** menu in Lion.

Alternatively, change the icon itself. First, locate one – it can be another file or folder icon, or an icon file (search Google for 'free mac icons'). Select the file containing your chosen icon and press **⌘+I**. Click the icon and press **⌘+C**, then open the **Information** pane for your target file or folder, select its icon and press **⌘+V** to replace it.

Reveal the Library



The **Library** folder has been hidden in Lion by default, but thankfully there's an easy way to access it without having to show all the hidden folders on your Mac in the process: just open *Finder's* **Go** menu and hold the **⌘** key – you'll see the **Library** appear between **Home** and **Computer** on the list. Just select it to open your personal **Library** folder.

Delete sensitive items securely



When you drag an item to the Trash and then empty it, the file in question is actually still present on your hard drive until the space it resides in is written over by other data. Click and hold the mouse button over the Trash icon, then hold the **⌘** key to reveal the **Secure Empty Trash** option. Select it to more thoroughly wipe private files from your drive.

Create semi-opaque sticky notes



The *Stickies* application allows you to paste reminders all over your desktop in the form of sticky notes in various colours and styles. If you find your desktop's getting overwhelmed by all of your notes, you can make individual notes less visible: select the offending note and select **Note > Translucent Window**. Select **Note > Use as Default** to make all new notes semi-transparent too.

Login quickly



If you share your Mac with others, you may find having to log in each time you start it gets to be an annoyance. Fortunately, you can bypass it: first open **System Preferences > Users & Groups**; click the lock, then click **Login Options**, pick your user account from the **Automatic** login drop-down menu and enter your password to boot straight to your desktop in future.

Switch between locations quickly



If you find yourself moving your MacBook between different

networks, you might have to configure different settings for each network you connect to. Open *System Preferences* and select **Network**, then click the **Location** drop-down menu and choose **Edit Locations**. Click **+** to create a new location, give it a name and click **Done**. Then fill in the details you need to access that network by way of an Ethernet cable or wireless connection. Switch between networks using the **Location** drop-down menu.

Change the Launchpad background

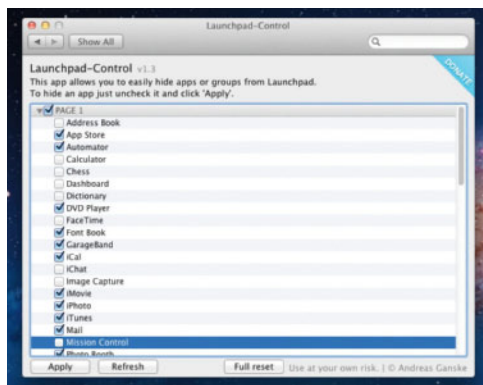


When opened, the Launchpad overlays a blurred version of your desktop background image. If you don't like this, you can easily change it: with Launchpad open, press **⌘+B** and the background will change to black and white. Press it again for a blurred black and white image, and once more for a regular colour view of your desktop. If you want to return it to its original setting, just hit **⌘+B** for the fourth and final time.

Reveal more detail in your search results



Being able to sort your search results a number of ways can be advantageous when you're trying to pick a single file from dozens or even hundreds scattered all over your hard drive. One quick way to track down a file is by searching for the date that it was created or modified. By default, *Finder* search results don't include this information, but by simply right-clicking anywhere in your search results window and choosing **Show View Options**, you can add additional information, including **Label**, **Date Created** and finally, **Date Modified**.



Streamline the Launchpad with a free System Preferences panel utility called Launchpad Control.

Manage the Launchpad



Launchpad, which was introduced in Lion, was inspired by your iPhone or iPad's home screen. It gives you quick-fire access to all of your apps from a single location, but it needs to be tweaked to reflect your needs before it can be deemed truly indispensable. Start by organising your icons in the order you want them to appear. You may also want to move icons between pages: to do this, just drag the icon to the left of the screen to move it to the previous page, or the right to place it on the following page. You may also want to restrict the Launchpad so that it only shows your choice of application. To do this requires a free program called *Launchpad Control* (<http://bit.ly/n336bc>), which installs into *System Preferences* under Launchpad. From here, simply untick the items you wish to hide and click **Apply** to streamline the Launchpad. Re-tick an item to make it visible again.

Switch between open applications



If you've got loads of windows and apps hidden away to prevent desktop clutter, switching between them can be tricky. Hold down the **⌘** key and press **⇧** to launch an icon-based task switcher. You can use **⌘+⇧** and **⌘+⇧+⇧** to move between them, before hitting **⇧** to switch to that application (you can also press **⌘** to quit it, or **H** to hide or show its windows).

Want more detail? Hit **T** and the Exposé Application Windows mode takes over. This gives you a preview of all the windows currently opened by the selected app. Move between windows using **⌘** and **⇧** keys, using **[Space]** for an up-close preview of the currently selected window. Jump to the next app in the list with **⌘+⇧+⇧**. Hit **⇧** to select the current window and return to the desktop, or **esc** to simply exit back to the desktop.

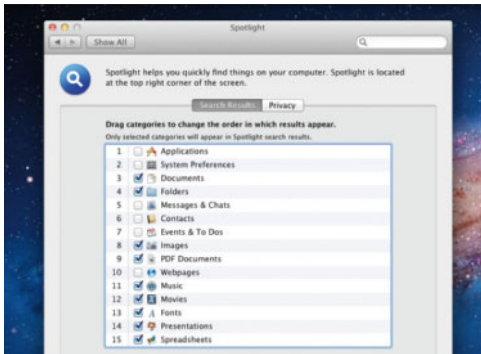
Search by Spotlight



You don't need to open *Finder* to initiate a search for files and documents on your hard drive: you can also search your Mac directly from the menu bar using the Spotlight magnifying glass icon in the top right-hand corner. The results appear via a drop-down menu, which are helpfully organised into file types, and clicking one opens it. That's as far as it goes for Snow Leopard users, but Lion users should revisit the Spotlight bar as a number of useful enhancements have been added. First, you can now get a preview of any search result simply by moving the mouse over a specific



Switching between open applications in OS X can be achieved by way of the **⌘+⇧ and **⌘+⇧+⇧** keys. Try it!**



Tweak search settings from Spotlight's Preferences panel.

file and waiting for a pop-up to appear. Second, hold **⌘+⌘** as you roll the mouse over a file and its path will be revealed underneath the QuickLook window. Finally, hold **⌘** as you highlight a document and the first instance of your search term will be highlighted at the same time.

Limit the scope of your search

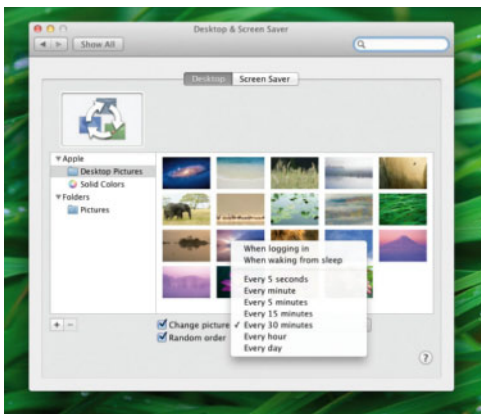


By default, Spotlight (top-right of the menu bar) will search in no less than 15 categories, including various file and document types, applications and *System Preferences*.

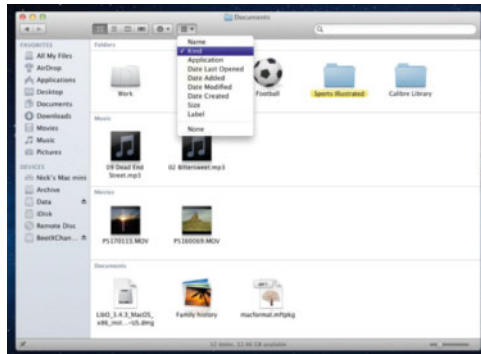
When you perform a search, you can narrow the results to specific file types by choosing **Show all in Finder** to open the results in a *Finder* window. Click the + button next to **Save** and click the **Any** drop-down menu to limit your search accordingly. Want to search two or more file types? Simply click the + to add another file type to the list.

If you would like to limit future searches to specific types, resulting in faster searches, open *System Preferences* and choose **Spotlight**. Simply untick those categories that don't interest you, and Spotlight will helpfully ignore those file types in future searches.

You can also ban Spotlight from searching specific folders on your Mac: switch to the **Privacy**



Breathe new life into your desktop by rotating the background image every now and then.



The Finder continues to evolve with each new OS X.

tab and either drag a folder into the window, or click + to add it manually.

Change your desktop background



If you're bored with the backdrop that greets you every time you boot your Mac, it's time for a change. Open *System Preferences* and select the

Desktop & Screen Saver > Desktop tab. From here you'll find a number of different backgrounds to choose from - if you can't choose between them, tick **Change picture** and rotate the background at set intervals, from a frankly ridiculous five seconds to a more sedate daily switch. Also tick **Random order** to prevent the selection getting stale.

A large number of backgrounds are provided, while you can also select something more personal from an *iPhoto* collection or your **Pictures** folder. Add additional folders by clicking + to select them. If you're going for something personal, try to resize or crop it using *Preview's* **Tools** menu to match the dimensions of your desktop. If you don't know what it's currently set at, find out from the **Displays** *System Preferences* pane.

Master Lion's new Finder features



The *Finder* has been overhauled in Lion to provide a number of useful new features. There's a new smart folder called **All my files** that appears in the sidebar, for example; clicking it lets you view all of your documents and other personal files, all arranged according to their type.

There's also a new button that lets you quickly choose how your files are arranged without having to select **Show View Options** first. There's also a new option (**Date added**), which is especially useful for folders like **Downloads**.

One thing that's missing by default from the new *Finder* - which may annoy you - is the status bar. Getting it back is simple enough though: just press **⌘+⌘** to toggle it on or off.

Spotlight drag and drop



It gets even better for Lion users rediscovering the joys of Spotlight (see the Spotlight tips left and on the opposite page): you can now drag and drop Spotlight search results out of the window for a myriad of purposes. Drag them to a *Finder* window or the desktop to create copies while the originals are left untouched. More excitingly, you can drag and drop Spotlight results into an email, or share it with other users via **AirDrop**, making Spotlight a great time-saving tool.

Preview files in Finder



Want a quick preview of a selected file? Just press the **[Spacebar]** to activate

QuickLook for a quick peek. Snow Leopard users can also zoom into a thumbnail of selected images in *Finder's* column view: with the preview visible, hold the **[⌘]** key as you click on it to zoom into the image, or **⌘+⌘** to zoom back out again. When you're zoomed in, you can easily pan around the image using the mouse. This also works on the image's preview when you select it and choose **File > Get Info in Finder**.

Manage AutoCorrect for different apps



A large number of built-in applications - including *Safari* and *Mail* - make good use of **AutoCorrect**, but sometimes it's a hindrance rather than a help. Fortunately you can do something about it. Manage it by opening *System Preferences* and choosing **Languages & Text > Text** tab. From here, tweak its settings or disable it entirely (untick **Correct spelling automatically**). The changes come into effect when apps are relaunched. You can also disable it on an app-by-app basis. To do so, place the cursor in a text field then choose **Edit > Spelling and Grammar > Check Spelling Automatically** to remove the tick.

Enable AirDrop on any Mac



AirDrop makes it simple to share files between two Macs on the same

network, but it apparently only works on newer Macs that support a particular type of Wi-Fi connection. If you've upgraded your Mac to Lion and discovered it doesn't appear to support AirDrop, don't fret. Open Applications > Utilities > Terminal and type the following command on all the Macs you wish to enable AirDrop on, even those which it already supports:

defaults write com.apple.

NetworkBrowser

BrowseAllInterfaces 1

Restart each Mac, and AirDrop should now be accessible to all Macs running Lion on the same network.

Switch between desktops quickly



Moving between your virtual desktops can be done from the menu bar

or Dock icon, or by clicking on an app's icon in the Dock itself. Alternatively, use your keyboard: press **⌘+⌥** or **⌘+⌥** to quickly move to adjacent desktops, or jump straight to a specific desktop in your spaces via **⌘+1**, **⌘+2**, **⌘+3** or **⌘+4**. These latter shortcuts are disabled in Mission Control, but fortunately you can get them back: simply open *System Preferences* and select the Keyboard > Keyboard Shortcuts tab. Choose **Mission Control** and then tick the relevant boxes next to each **Switch to Desktop...** shortcut you want to use.

Reveal hidden menu bar options



Click on an application or system tool's menu bar icon and you'll see a list of

options appear via a drop-down menu. All very useful, but if you hold the **⌘** key as you click you may find some alternative options popping up: verify your backups in *Time Machine*, for example, or perform a diagnostic test on your Bluetooth connection.



Mission Control combines the best parts of Exposé and Spaces in a single tool that's available at the touch of a key.

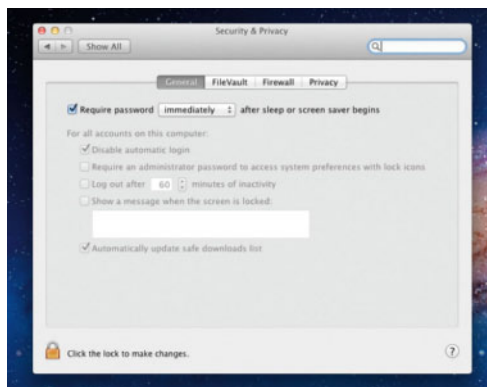
Lock your Mac



Do you frequently leave your Mac unattended and get frustrated at the hoops you have to jump through in order to 'lock' it, so it can't be used until you return? Then read on for a handy hint that shamelessly steals one of the better ideas from Microsoft Windows.

First, pick a screensaver that you'd like to use while your Mac is left unattended: open *System Preferences* and choose the Desktop & Screen Saver > Screen Saver tab to do so. If you don't want the screensaver coming on at any other time, set the Start Screen Saver slider to Never.

Now return to *System Preferences* and this time select Security & Privacy. Tick Require password immediately after sleep or screen saver begins. Close *System Preferences* and when you next go to leave your Mac, press **⌘+⌥+⌘** to trigger the screensaver and lock your Mac.



Choose a screensaver, then tick this box to enable you to quickly lock your Mac when it's not in use.

Work with multiple desktops



While you can keep your desktop reasonably clutter-free by minimising open windows, it isn't the most convenient way to work. A better way is to make use of Spaces (Snow Leopard) or Mission Control (Lion), which enables you to set up to 16 virtual desktops, allowing you to both assign windows to different desktops and then switch seamlessly between them.

Lion users can quickly access Mission Control by pressing **⌘+F3**, but Snow Leopard users need to enable the feature first: open *System Preferences* and choose the Exposé and Spaces > Spaces tab. Tick Enable Spaces and - for easy access - Show Spaces in menu bar.

Four desktops are set up by default in Spaces - click Add Rows or Add Columns to add more. New desktops are added to Mission Control by either dragging a window into empty space to the right of the desktop or by clicking the + button that appears in the top right-hand corner.

Manage multiple desktops



Applications can be manually assigned to a specific desktop simply by launching them when that desktop is visible. You can also move windows between desktops in Mission Control simply by clicking and dragging their preview window to the new desktop. Better still, you can configure applications to open in specific desktops, allowing you to effectively configure one desktop for web browsing, another for productivity apps like image editing and so on. Lion users can assign an



Force applications to launch into your choice of desktop using the Options menu, accessed via Lion's Dock.

application to a specific desktop by right-clicking its Dock icon and opening the **Options** sub-menu to choose between one desktop, all desktops or – the default behaviour – no desktops. Snow Leopard users should open the System Preferences > Exposé and Spaces > Spaces tab, then click the + button to assign open applications (or click **Other** to browse for one) to a specific desktop, or **Every desktop** if you want it universally available (recommended for key tools like *Finder*).

Set up your Dock icons



The Dock is an incredibly useful tool, giving you quick and easy access to various parts of your system, but it pays to take the time to set it up exactly how you want it to operate.

Start by customising the Dock so that it conveniently shows your favourite applications. Remove unwanted icons from the Dock simply by dragging the icon onto your desktop, where it will disappear into a puff of smoke.

Next, add favourite applications to the Dock so they're permanently visible: open the **Applications** folder and simply drag your app's icon onto the Dock in the place where you want it to lie in the list. Make sure it's to the left of the dividing line that appears between app icons and stacked folders. Once done, rearrange your app icons into a logical order by dragging and dropping them into place on the Dock. (You can resize the Dock on the fly by click-dragging the separator up or down with your mouse.)



If the Dock isn't working as you would expect it to, take a trip to System Preferences and seek out its pane.



For ultimate convenience, take the time to set up the Dock with shortcuts to all your favourite applications.

Change the Dock's behaviour



Want to change certain aspects of the Dock's look, as well as hide it from view until you need it? You'll find most options available under the Apple > Dock menu, but to take full control of the process, open *System Preferences* and select **Dock**. From here you can resize the Dock plus set a magnification level that makes highlighted icons more visible. You can choose to place the Dock on the left or right of the screen, plus set the Dock to automatically hide when it's not being used (just drag the mouse to the screen edge where the Dock is to reveal it). By default, all minimised windows are displayed as thumbnails between folder stacks and the Trash: tick **Minimize windows into application icon** to disable this behaviour.

Working with Stacks



Drag a folder right of the dividing line on the Dock and it will create a 'stack' of that folder's contents, which appear when you click the folder icon. Stacks display their contents in **Grid**, **Fan** or **List** view – switch views by right-clicking the folder. Files and folders can be moved from the stack to the desktop or a *Finder* window simply by dragging them to the appropriate location – hold the [⌘] button to copy them instead. If you're a Lion user you can even move or copy files between stacks in this way: open the first stack, drag the file onto another stack folder and either let go or wait for the folder window to open, allowing you to place it precisely. Lion users can preview individual stack entries by placing the mouse over it and pressing the [Spacebar] for a preview of the file.

Cut, paste and consolidate files



Lion introduces two handy features for managing files in *Finder*: the ability to easily move files from one location to another, plus an option for consolidating a selection of files into a single folder. To move files from one location to another, select your choice of folders and files, and press [⌘]+[C] to copy them, followed by [⌘]+[⇧]+[V] instead. The files will be moved here, and deleted from their original location. To move a group of files into a single folder, simply select the files in question and press [⌘]+[⇧]+[N], then rename the folder to finish.

Identify your virtual desktops easily



You can assign a different background image to each virtual desktop in Lion (these were known as Spaces in Snow Leopard), helping you identify which is which. First, make sure you right-click the *System Preferences* **Dock** pane and choose **Options > All Desktops**. Then simply switch to each desktop in turn using Mission Control and open the **Desktop & Screen Saver** Preferences pane to set a unique background for that desktop.

Change the Login screen's background



If you're running Lion, start by preparing your replacement 'texture' - a 256x256-pixel image in PNG format. Type 'texture background' into <http://images.google.com> if you're stumped for inspiration. Once the image is resized and converted, rename it **NSTexturedFullScreenBackgroundColor.PNG**. Browse to **/System/Library/Frameworks/AppKit.framework/Versions/C/Resources**, back up the original and then copy your new image here, overwriting when prompted. Things are slightly different in Snow Leopard: you need to create a JPG file in the same native resolution as your display, named **Aqua Blue.jpg**. Browse to the folder **/Library/Desktop Pictures**, back up the original and replace it with your new image. (In *Terminal*, **Type `chflags nohidden ~/Library/`** if your **Library** folder is hidden.)

Set your Dashboard free



In Snow Leopard, your dashboard widgets are designed to float on top of your desktop, but in Lion they've been assigned their own dedicated desktop space. If this change doesn't suit, you'll find that, thankfully, setting your Lion widgets free is a straightforward task: just open *System Preferences* and select **Mission Control**, then untick **Show Dashboard as a space**.

Take screen captures quickly



You can quickly take screenshots using one of two handy keyboard shortcuts: hold **[Shift]+[Command]+[3]** to grab the entire screen, or **[Shift]+[Command]+[4]** to grab a selected area. You can press **[Space]** to capture selected windows instead.



You'll find all kinds of useful - and not so useful - widgets available online. They are a cinch to install, too.

Populate your Dashboard



The *Dashboard* lets you place a number of useful information-based tools called widgets on your desktop. A small number are enabled by default, but getting more is easy: click the **+** button at the bottom left of the desktop to add more. You'll also find thousands more widgets online: check www.apple.com/downloads/dashboard.

Once downloaded, you can preview a widget without having to install it: double-click the zip file to extract the widget, then double-click the widget itself. When prompted to install, hold **[Shift]+[Command]** and the **Install** button will become a **Run** one. Click this and the widget will open in your *Dashboard*, but when closed it will disappear.

This allows you to give the widget a test drive - if you subsequently don't like it, just close it and delete the downloaded file. If you want to keep it, just double-click the widget file again, this time choosing **Install** to add it to your *Dashboard*.

Automate repetitive actions



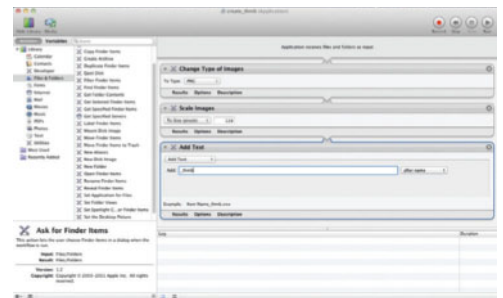
You can't master the powerful *Automator* tool in a single tip, but you can get a flavour of its usefulness and power by following this simple tweak, which allows you to create a thumbnail quickly and easily by automating a number of otherwise repetitive actions. Open *Automator* from the *Applications* folder. Select **Application** and click **Choose**. Select **Photos** under **Library** and ignore the restrictive **Create Thumbnail Images** option. Instead, drag **Change Type of Images** across, clicking **Don't Add** when prompted. Pick your chosen

output format - PNG or JPEG in most cases. Now drag **Scale Images** across - again, click **Don't Add** - and choose an exact pixel size (width) for your thumbnail. Finally, select **Files and Folders** under **Library** and drag **Rename Finder Items** across, click **Don't Add** for a third time, and tweak it to **Add Text** (for example **_thumb**) after the filename. Save your application and test it by dragging image files onto it to automatically create thumbnails.

At your Service



Automator can be used to create menu items and other useful features where none exist in OS X. These are created by launching *Automator* and choosing **Service**. Would you like to right-click a file and print it without having to open it in its parent app first? Select **Utilities** under **Library** and drag **Print Finder Items**. Set the **Service receives selected** drop-down menus to files and folders in *Finder* and save your finished service with a suitable name (such as **Print this file**). You can access it by right-clicking any file and choosing



Services allow you to fill in the missing gaps in OS X.

Services > Print this file (or whatever name you gave it). All services are stored in your user's /Library/Services folder (this is hidden in Lion - hold down $\square$ as you open the Go menu in *Finder* to access it). Should you later decide you no longer want a service, simply trash it from here before logging off or restarting.

Launch apps via the keyboard



Imagine being able to avoid using the Dock or the Applications folder to open your favourite program. Well imagine no more, because thanks to

Automator, you can create services that allow you to do just that.

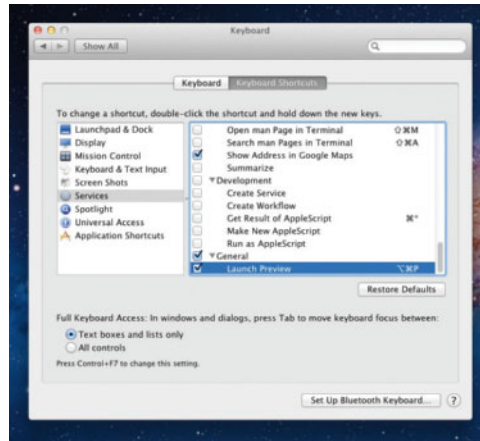
Launch *Automator*, select Service and click Choose. Next, set the Service receives drop-down menu to no input. Then select Utilities under Library and then drag Launch Application into the right-hand window. Now select your chosen app from the drop-down list, then choose File > Save to save the service.

Now close the *Automator* app and open the Keyboards System Preferences panel. Switch to Keyboard Shortcuts and choose Services from the left-hand menu. Scroll down to the bottom of the list and double-click in the blank space to the right to set your chosen keyboard shortcut. Hold down the desired shortcut keys, then make sure the service is ticked. Finally, log off or restart your Mac to test out the.

Tweak Lion's Resume settings



Lion's new Resume feature has all the trademarks of Marmite: you either love it or hate it. Things aren't helped by the lack of customisability in Lion itself. You either switch off the state-saving feature for all supported apps (open System Preferences > General and untick Restore windows when quitting and re-opening apps) or you leave it on and struggle to remember to



Launch any application using a simple keyboard shortcut to save time and hassle. Set them in the Shortcuts pane.

manually press $\square$ + $\square$ + $\square$ each time you quit an app you want to restart with a clean slate. Thankfully there's a third way in the form of *TinkerTool*, <http://bresink.de/osx/TinkerTool.html>. Switch to the Resume section and you'll be able to pick and choose exactly which applications are allowed to save their window states when quitting. So now you can restore windows on well-behaved apps while preventing others from opening windows you have no need for.

Undo unwanted Lion touchpad tweaks



It can be awkward using the touchpad to drag multiple items around, which is why lots of people swear by the tap-drag method: choose your items, then tap and release, before tapping and holding as you drag your selection around the screen.

At first glance, it appears that Lion has ditched this functionality, but before tearing your hair out, relax: it's simply been disabled as default behaviour. To get it back, open System Preferences and select Trackpad, then tick Dragging (with/without) Drag Lock. When it's enabled, Lion will even display an

iOS-like badge telling you how many items you're currently dragging around the screen.

You can also undo another trackpad-related change from the same panel: reverse scrolling (Apple chooses to call it 'natural scrolling'). While some may find the new system intuitive, others will no doubt gratefully untick the option labelled When using gestures to scroll or navigate, move content in the direction of finger movement. ●

Annoyed at some of the trackpad changes introduced in Lion? You can undo them.

Magnify images in Preview



A new feature in Lion allows you to magnify a selected area of the currently loaded document or image. Switch it on by pressing the $\square$ key and you'll see the magnifier appear - just move it around the image using your mouse. You can easily alter the magnifier's magnification using the $\square$ and $\square$ keys.

Animation in slo-mo



As you've no doubt noticed, your Mac is blessed with some fabulous animation effects as windows swoop, desktops slide into place and more besides. Sometimes, though, you might appreciate a slower pace to things, and there's a keyboard shortcut for that: the $\square$ key. Just hold $\square$ as you click Dashboard, Launchpad or a desktop in Mission Control, for example, to see what we mean.

Perform Spotlight calculations



Click the Spotlight icon, type in a sum and the search results will include a calculation courtesy of the built-in calculator. It supports some advanced commands - try **sqrt(9)** for example - but it's not always accurate and is best left for simple arithmetic. Remember, you can access the main calculator from the Applications folder for complex calculations.

Access Dock from full-screen apps



One of the few drawbacks of running apps in full-screen mode in Lion is that the Dock appears to be inaccessible. In fact, you can still access it directly from full-screen mode: just move your mouse down to the bottom of the screen as normal, then lift it before moving it down again, at which point the Dock appears.



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"OS X Lion's new nerve centre is never more than a click or a gesture away"

MAKE THE MOST OUT OF MISSION CONTROL P62

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How to...

● PHOTOS ● MOVIES ● MUSIC ● OFFICE ● SYSTEM



Rob Mead-Green
Deputy Editor

Most of us try to put off our resolutions until the New Year, but the best time to start them is now: that way you'll already be ahead of the game when the post-Christmas comedown kicks in. To help you get started, why not try the productivity tips and tools you'll discover on page 56.

As well as being mentally fit, what about your physical fitness too? On page 54 we'll show you how to use Mac app *rubiTrack* to help you with your fitness regime. Meanwhile, exercise of another kind can be found on page 52, where we'll

show you how to get started with awesome online gaming service, OnLive.

Other neat things to try this month include applying depth of field effects to your photos using *Adobe Elements 10* (page 42); adding a musical soundtrack to your latest home movie (page 46); and making the most of OS X Lion's new Mission Control feature (page 62). See, even your Mac's getting in on the act!

If there are any tips or tutorials that you'd like to see in *MacFormat*, drop us an email (macformat@futurenet.com). We look forward to hearing from you.



» DID YOU KNOW?

Thanks to iCloud and iOS 5, apps, songs or books you buy via iTunes can be automatically copied to all your devices. See www.apple.com/itunes for more.



BEFORE: The above image is clear enough, but it could be argued the focus is a bit flat.

AFTER: Applying a depth of field effect to the scene gives it dimensionality.



Recreate depth of field effects

Creative background blur is easy, thanks to the Guided Edit mode in Elements 10

»» KEY INFO



DIFFICULTY
Intermediate



TIME NEEDED
15 minutes

WHAT YOU'LL NEED
Adobe Photoshop Elements 10

Photographers use depth of field to blur distracting backgrounds and make their subjects stand out clearly. It's a very effective technique, but it's not so easy to do now as it used to be, partly because sensors are smaller and partly because most of us use zoom lenses with restricted maximum apertures, rather than the fast 'prime' lenses of yesteryear.

As a result, the only way to get a shallow depth of field effect is to simulate it digitally. This means selecting the areas you want to keep sharp and then blurring the rest, but while this is simple in principle, it can be quite difficult to get right if you're doing it manually. But *Elements 10* has a new Guided Edit Depth of

Field mode that walks you through the whole process, from creating a selection to applying the blur.

It works in two modes, **Simple** and **Custom**, and our walkthrough shows both of these in action. You need to choose the effect according to the image, because what works for one might not work for another. To be convincing, depth of field effects have to be based on the real properties of lenses. Objects at a

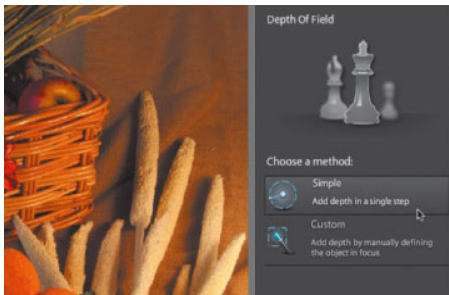
"You need to choose the effect according to the image - what works for one might not work for another"

fixed distance from the camera should appear sharp, while those nearer or further away should appear progressively more blurred. This means you often need to take a careful look at an image to see what should be sharp and what shouldn't.

Sometimes you can get away with the **Simple** mode, but more often than not you need the **Custom** mode. Still, you have to be realistic about what's feasible. Complicated outlines (twigs, hair) can be impossible to get right, and you need to pay attention to perspective and subject distance too; depth of field, perspective and perception are related in subtle and complex ways, so be prepared for a certain amount of trial and error.

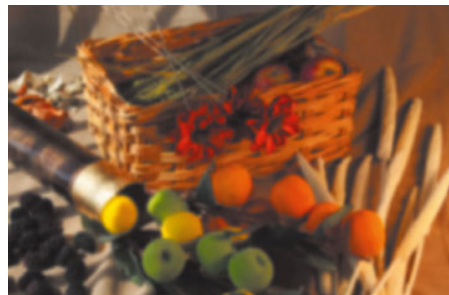
Rod Lawton

>> HOW TO / De-focus selectively in Guided Edit mode



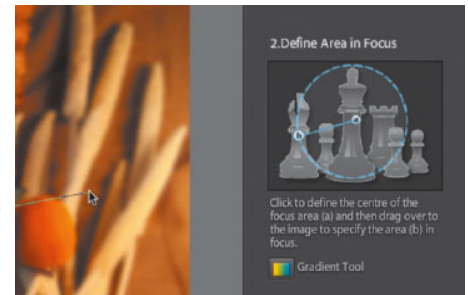
01 Simple mode

The **Depth of Field** effect works in two modes: **Simple** and **Custom**. For the first shot we'll use **Simple** mode. It's easy to apply, but you need to choose the right image; it creates a blurring effect from the centre outwards, which is nice, but isn't really a true simulation of depth.



02 Add Blur

In **Simple** mode, step 1 is to click the **Add Blur** button. This adds a fixed amount of blur to the photo and it's usually more than enough to create the defocused effect, though you can add more using a slider at the bottom of the panel, once you've defined your 'in Focus' area.



03 Define sharp area

This is step 2. The graphic in the **Guided Edit** panel shows what you want to do; click on the **Gradient Tool** button below and drag out from the centre of the area you want to keep in focus. You're masking the blurred image using a radial gradient so that the effect widens out.



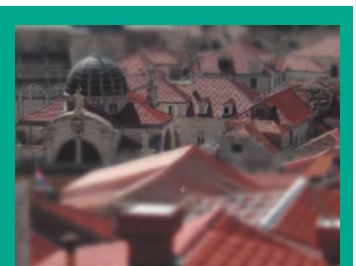
04 Custom mode

This subject demands more control, hence **Custom** mode. We want to keep the front of the car sharp, but blur the background; first, 'Select the Focus Area' with the **Quick Selection** tool. You can -drag to remove areas selected unintentionally and re-select until it's right.



05 Add Blur

Now go to step 2, **Add Depth of Field** and click the **Add Blur** button. Again, *Elements* adds a fixed amount of blur which you can add to later; but the more you add, the less realistic the effect becomes (see the next step). The cutoff around edges can start to look artificial.



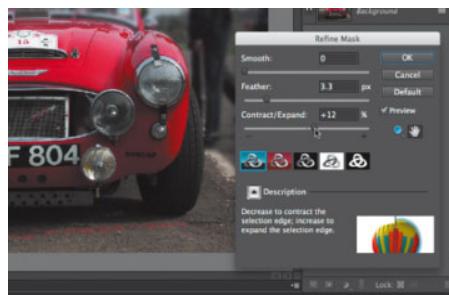
>> QUICK TIP

The **Depth of Field Guided Edit** doesn't do anything you can't do yourself. Here, we've created a duplicate layer, blurred it, added a layer mask, then used the **Gradient** tool set to 'reflected' mode to mask a thin strip of rooftops near the top.



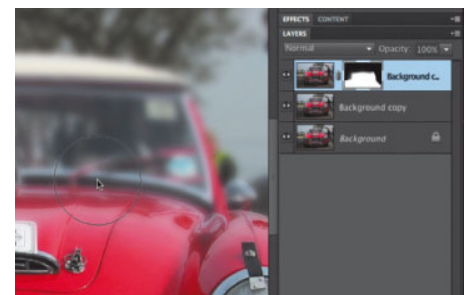
06 More blur

Extra blur increases depth of field effect, but because we associate shallow depth of field with extreme close-ups, a full-size subject like this can start to look like a tiny model of the real thing. It's this effect that makes the popular 'miniaturise' effects in cameras work so well.



07 Refine Mask

Selections made using the **Depth of Field Guided Edit** are seldom perfect. But if you swap to **Full Edit** mode, you'll see that *Elements* has created a layer with a 'blur mask'. Select it and use the **Refine Mask** option to improve the mask a little by 'expanding' and 'feathering' it.



08 Manual masking

The other option is to use the **Brush** tool: set colour to **Black** and **Opacity** to around 30%; use this to paint directly on the mask and gradually build up the defocused effect to produce a subtler blend - useful here for blurring the bonnet from grille to windscreen. ●

Find photos using camera data

Looking for shots taken with a particular camera? Let iPhoto do it for you!

» KEY INFO



DIFFICULTY
Intermediate



TIME NEEDED
10 minutes

WHAT YOU'LL NEED

iPhoto

Digital cameras save a wide variety of shooting data when you take a picture, and it's embedded invisibly in the image as 'EXIF' data. iPhoto can use this in a variety of ways. For example, it uses the date saved by the camera to sort photos chronologically. But there's a lot more information in there that you can use to find your photos quickly, and without having to resort to manual keywords or albums.

You can see some of the shooting settings embedded in your digital photos by selecting one and opening the **Info** panel. At the top, iPhoto displays the camera model, shutter speed, aperture setting, ISO, white balance setting and more. You can type any of these into the iPhoto search box and it'll find matching photos, but it'll probably find a lot more besides since it's also checking keywords, titles and descriptions.

But there is a way to directly access and use camera shooting data within iPhoto in a very specific way - smart albums. Smart albums are different to the regular sort. With normal albums, you add photos manually. But smart albums are filled automatically by iPhoto based on specific conditions you set up. Think of them as 'saved searches'.

And while iPhoto's search box is pretty indiscriminate, smart albums enable you to be extremely precise about the data you're looking for and what constitutes a 'match'. This can be very useful if you're trying to find

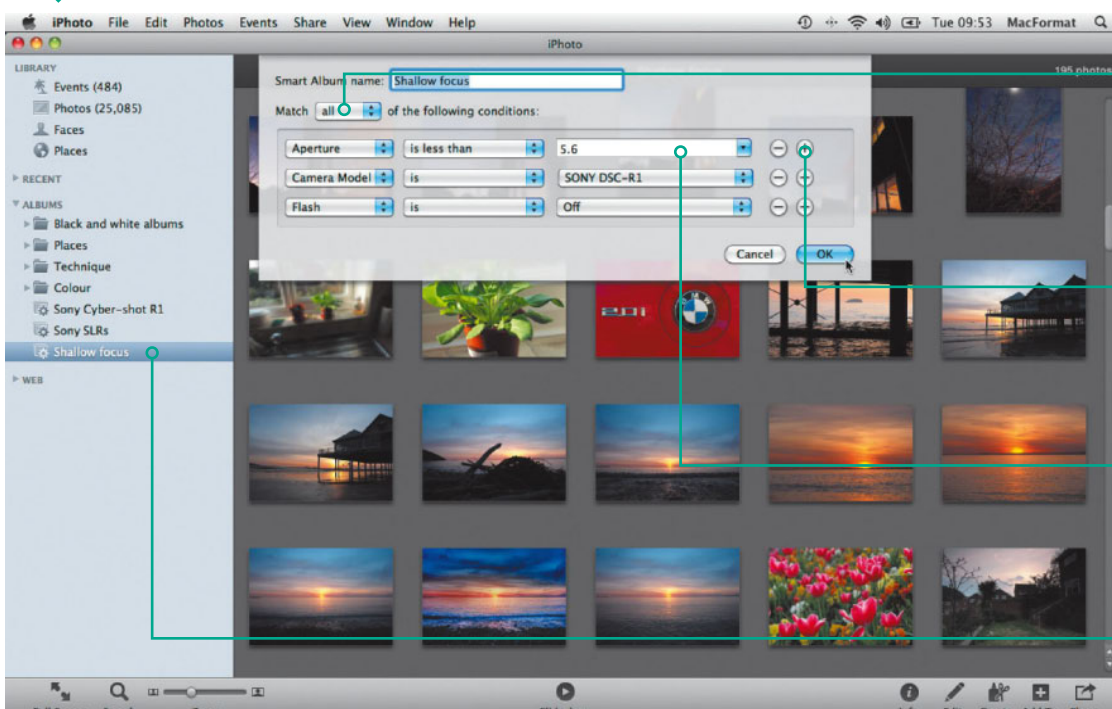
specific photos, or at least narrow down the list you have to look through. Our walkthrough shows a typical example, where the smart album's been set up to display highly rated high-ISO shots taken with a Sony R1 camera.

In fact, you can use the camera settings in a more lateral way to find photos with particular visual properties. For example, if you want pictures with shallow depth of field (creative background blur), you could create a smart album with a wide lens aperture as one of its conditions, and maybe longer focal lengths too. The EXIF shooting data embedded in your digital images is a mine of useful information when you're looking for specific photos, and smart albums are the tool you need for exploiting it. And this data is already there, waiting to be used.

Rod Lawton

"Smart albums in iPhoto enable you to be extremely precise about the data you're looking for"

» QUICK LOOK / Smart album creation



'All' or 'any'

This menu controls whether a smart album matches all conditions or any of them.

Add conditions

Use these '+' and '-' buttons to add or remove conditions.

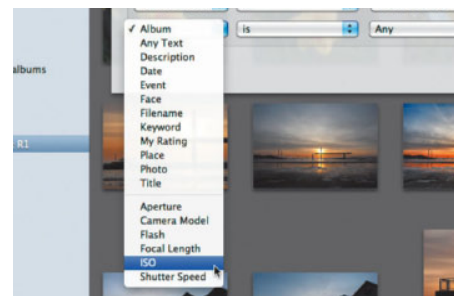
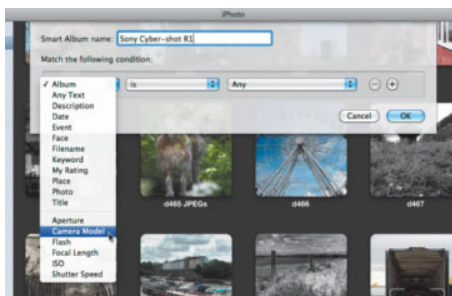
Conditions

The property, how it's matched, and value(s) it's matched with.

Smart albums

Smart albums show in the source panel, along with a small 'gear' icon.

» HOW TO / Use smart albums with camera data



01 Create a new smart album

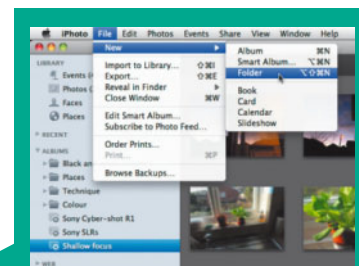
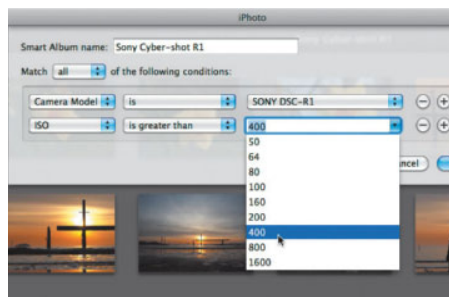
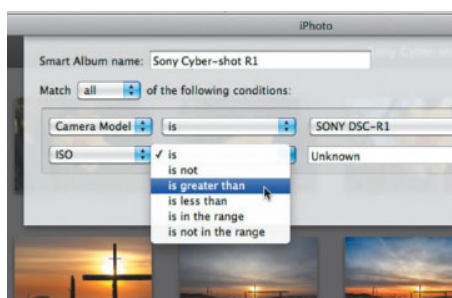
Create a new smart album using the File > New menu or by pressing $\text{⌘} + \text{⌘} + \text{N}$. Give your new smart album a name then set the first condition. Smart albums are created with one condition by default, but you can add more. We'll choose **Camera Model** from the menu.

02 Choose a camera

The middle menu chooses how the condition is matched; in this case it can be left set to 'is'. The right menu lists all the cameras used to take the photos in the library. *iPhoto* gets this information from the EXIF data in each photo. Scroll down the list and select a camera.

03 Extra conditions

The previous step finds all the shots taken with that camera, but what if you want to be more specific? Add another condition by clicking the '+' button to the right of the first one; this gives you another row of three drop-down menus. We'll choose ISO to search for.



04 Matching conditions

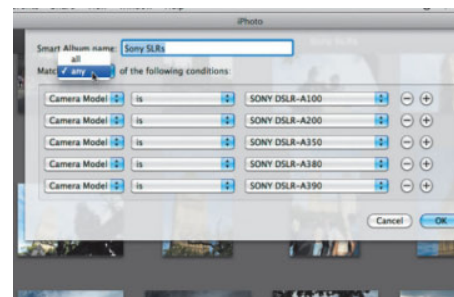
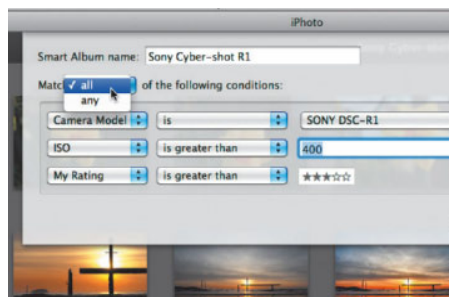
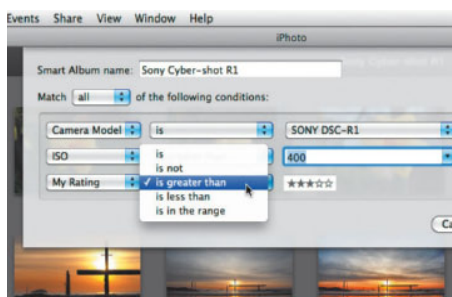
The options in the second and third menus change according to the property you choose in the first one. We've chosen ISO as the property, so we can choose specific values for the ISO, values greater or smaller than a specific value, or values that lie within a certain range.

05 Choosing values

The list of values in the third menu shows the list of values used by your photos. We want to look for photos taken at ISO settings above 400 - you'll see that the three menus in the condition have been designed to be read as a simple phrase: 'ISO is greater than 400'.

» QUICK TIP

You can accumulate so many smart albums that they disappear off the bottom of the source panel and you have to scroll down to see them. The way round this is to organise your albums into folders - you'll find the command on the File > New menu.



06 Mixing conditions

Carry on adding as many conditions as you like to narrow the search - they don't have to relate to camera data. We've a condition, 'My Rating is greater than 3 stars', which restricts the contents of the album to 3-star and above shots, taken with Sony R1 at ISO 400 and above.

07 Matching 'all' conditions

If you want smart albums to be highly specific, check the status of the small drop-down **Match** menu at the top-left of the smart album panel. This should be set to **all**, so that the album only displays photos that match all of the conditions. This is the default setting.

08 Matching 'any' conditions

If you set this drop-down menu to **any**, the smart album will work differently. Here, we've used it to create a smart album that displays photos taken on any one of a number of Sony digital SLRs. We must set up a condition for each one, but it only needs doing once. ●

Make your movie more lively with a music track.



Add music to your project

Want to add a musical score to your video? iMovie's got you covered

»» KEY INFO



DIFFICULTY
Beginner



TIME NEEDED
25 minutes

WHAT YOU'LL NEED:

iMovie '11 version 9.0 or later, a project in progress, a basic understanding of the interface

Like any other video editing program, *iMovie* is focused primarily on the visuals: you can see your clips broken down into a series of thumbnails, apply visual effects to them, alter saturation, brightness, contrast, and so on. But what would your favourite movie be without the musical score? Music is what makes your audience engage with the scene emotionally and without it, your movie can lead to a very bland experience.

Thankfully, *iMovie* doesn't disappoint on this front and you can browse through your *iTunes* library to add a track of your choice (as long as it's not a song encumbered with digital rights management - i.e., protected), or even drag your own

creation made with programs like *GarageBand* straight from the *Finder* onto your film. Unlike video clips, you can add any audio to a project without having to import it via *iMovie*'s File > Import feature.

One thing you may notice though is that if you drag some music into your project, it will be added automatically as a background track - this means that you'll hear it over the entire project. You can trim it of

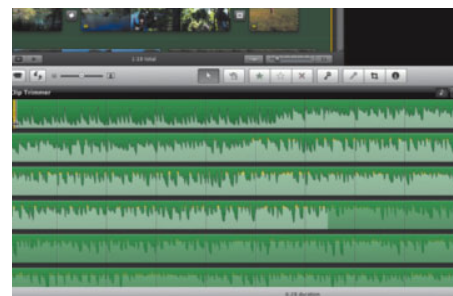
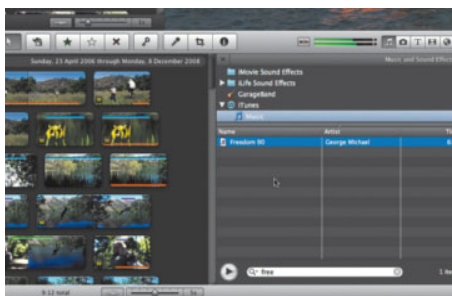
"Unlike video clips, you can add any audio to a project without importing it into iMovie first"

course, but what if you wanted the music to play only over a certain section? You can do this, but it requires you to perform a different function and 'pin' the music to a clip.

This tutorial is designed to show you how to achieve all of this. We'll start by working with a background track, show you how to trim it and even remove it if you've changed your mind; then we'll show you how to pin a track to a clip (which means that if you move that clip, your music will move along with it) and even explore the various sound effects that come pre-installed with *iMovie*. All you need is a project of your own already underway and we'll be ready to begin.

Steve Paris

» HOW TO / Add music to your iMovie project



01 Reveal your music

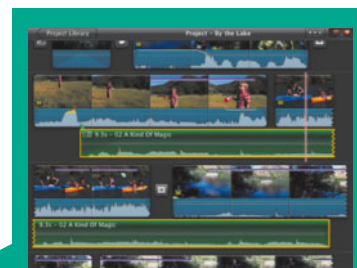
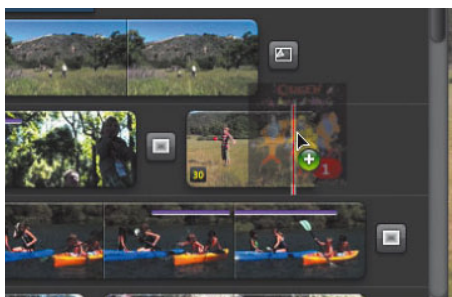
In *iMovie*, go to **Window > Music and Sound Effects** (or use the **⌘+1** keyboard shortcut). From there, you have access to songs created in *GarageBand* or available in *iTunes*. Select a track either by scrolling through the list or by using the search field at the bottom.

02 Into the background

Drag your song over your project and notice that the entire background turns green. When that happens, release your mouse and the track will have been added to your movie. It will play from the beginning until the end of the film or the song, whichever comes first.

03 Trim and edit

In your project, to the left of the track's name is a cog wheel button. Click it and choose **Clip Trimmer**. The bottom half of the interface is replaced with the music's waveform. Use this section to trim your song so you only hear the part you wish, by dragging the yellow handles.



04 A banner for a song

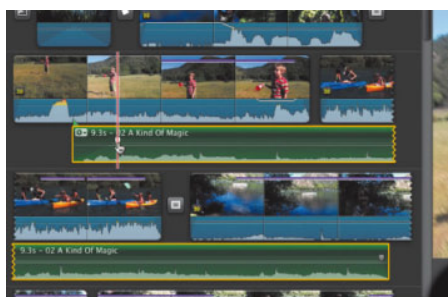
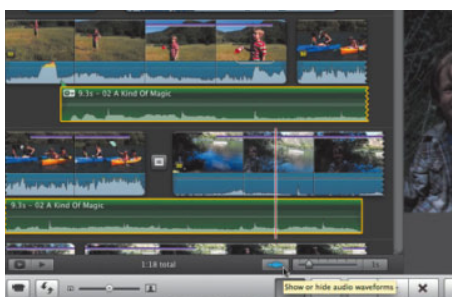
Click **Done**. Having the song at the start may work for some projects but not others. To remove it from your project, select it to get a yellow highlight around your entire project, then hit the **Delete** key. Choose another song and this time, drag it over a clip in your project.

05 Trim the project

The green banner represents your song. You can now drag that banner wherever you want so the music will start at a specified point. It still has a cog wheel, so you can trim it in a window; or mouse over its edge to turn the cursor into a resize tool. Drag inwards to trim it.

» QUICK TIP

iMovie '11 comes with 19 audio effects which you can apply to any audio track, including music. Select a track and reveal the **Inspector**. Click on the **Audio Effect** button. Hover the mouse over an effect to hear your track with it applied.



06 Seeing waves

You can quickly trim the audio that way, but without the waveforms, it's a bit of a hit and miss affair. Thankfully, *iMovie '11* introduced a waveform view in the project section. To activate it, click the **Show and Hide Waveforms** button, lower-right of that section.

07 Fade markers

Mouse over the music for a little grey marker near the start and end of your track. This is a fade: by default, your track will fade in to full volume and out to mute in half a second. Drag the markers to adjust. Drag the first one left to remove fade; drag right to extend it.

08 Inspector controls

If you need more control, double-click the track to open the **Inspector** window. From there, select the **Audio** tab. You'll be able to raise or lower the volume of the entire track, manipulate the fades with sliders and reduce any background noise if there is any. ●

Use Premiere Elements 10

Editing using a new program is a daunting task, so let's run through the basics

» KEY INFO



DIFFICULTY
Beginner



TIME NEEDED
25 minutes

WHAT YOU'LL NEED

Some footage on your hard drive, a basic understanding of editing, Adobe Premiere Elements 10

Now that *Final Cut Express* has been discontinued, your only option if you wish to migrate from *iMovie* and stay with Apple's editing vision, is the rather expensive *Final Cut Pro* for nearly £200. Thankfully, there are other tools available to you when you've outgrown your *iLife* program: Adobe's *Premiere Elements* is one of them and at £79, it's not going to break the bank as much.

But migrating to a new program brings its own set of challenges because the engineers who designed it have a totally different idea of how cutting a movie on a computer should look like. As a result, all the habits you've grown accustomed to with the previous software are conspiring to make your life much harder because nothing is where you expect it to be. This all comes down to the interface.

If you're used to *iMovie*, everything will feel topsy-turvy with *Premiere*: the main preview window is on the left, not the right, all your available clips are on the right, not at the bottom, and your project is at the bottom, not the top left. We criticised this in our review last issue.

Fortunately, *Premiere* offers a lot of flexibility over *iMovie*, such as the ability to apply more than one effect to a clip at a time, or being able to work with multiple layers of video, so you can alter the opacity of the top one to reveal the bottom one through it; or you can make use of

"There are other tools available to you when you outgrow iMovie and Premiere Elements 10 is one of them"

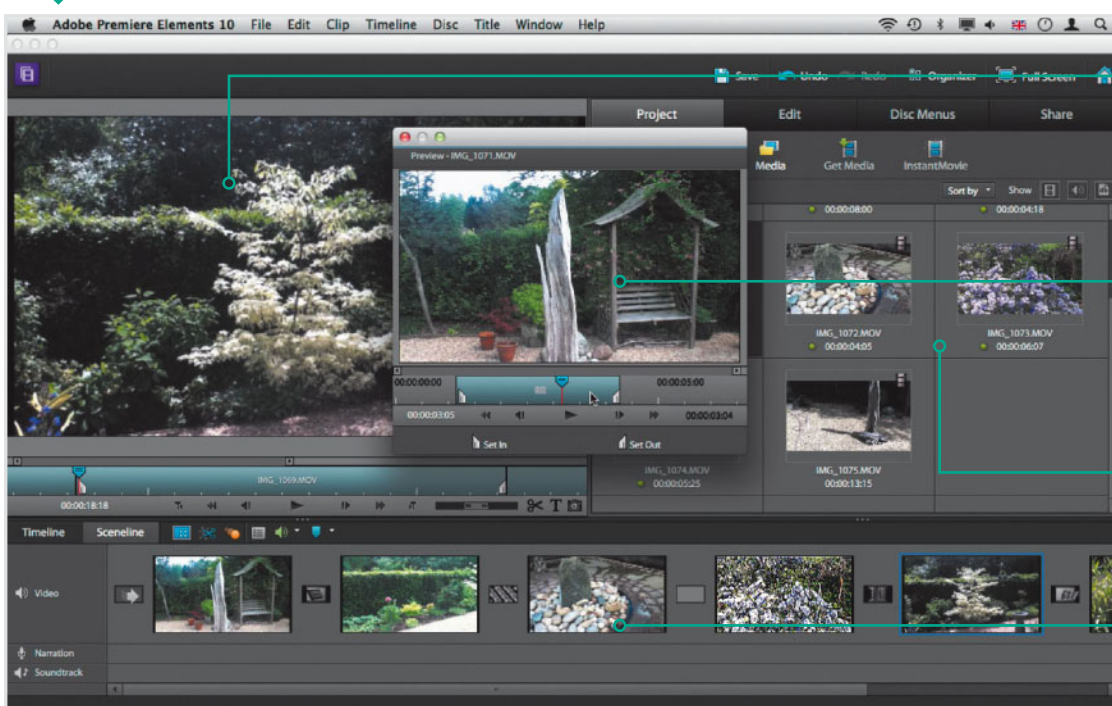
multiple layers to experiment with various editing options.

As this is our first tutorial, we'll be focusing on the basics. Sadly, you can't import an *iMovie* project into *Premiere*, so whatever you do, you'll have to start from scratch. You can, however, import clips stored in your *iMovie* Events and use those in your new films, saving you a lot of time since you won't have to recapture everything. Once you're ready to start, we'll show you how basic editing works on *Premiere*, along with adding transitions and effects (you can even edit those effects, something that's not possible in the latest version of *iMovie*).

Even if you don't own *Premiere*, you can still follow this tutorial by downloading the demo from Adobe and see if you prefer it to Apple's alternative: <http://adobe.ly/rjXPlc>.

Steve Paris

» QUICK LOOK / Find your way around the interface



Viewer section

Move the playhead at the bottom of this section and you'll see a preview of your film.

Preview clips

Double-click a clip to bring up a more detailed floating window.

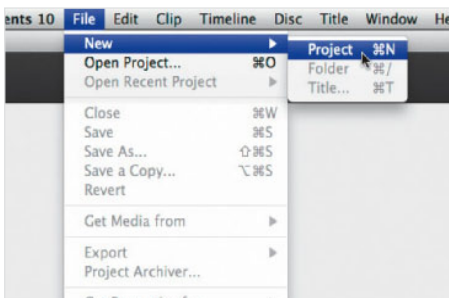
Your clips

Imported clips are accessed and can be organised from here.

The Sceneline

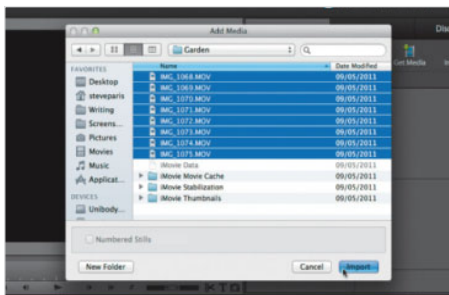
Add clips here to build you edit. Our tutorial focuses on this.

>> HOW TO / Start your first edit



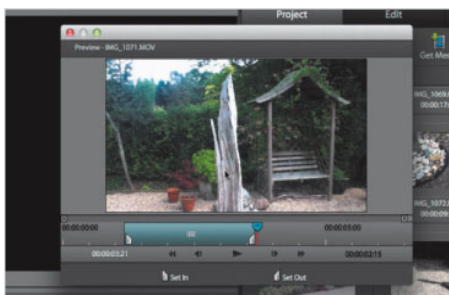
01 A new project

Launch *Adobe Premiere Elements 10* and you'll be graced with a blank grey screen. Start by going to **File > New > Project** (or use the **⌘+N** keyboard shortcut). Make sure you choose a PAL project via that window's **Change Settings** button (it's NTSC format by default).



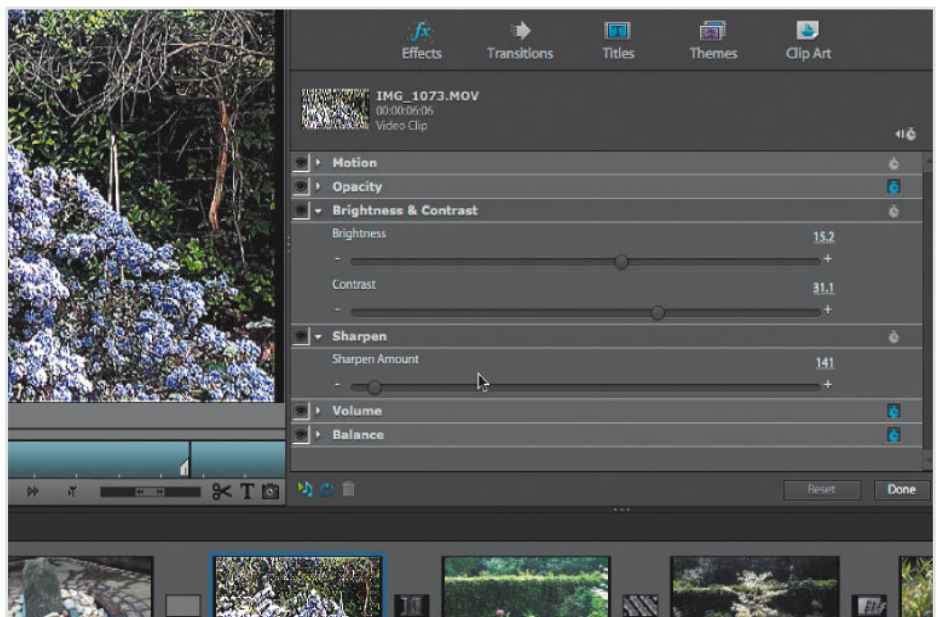
02 Import media

Your next step is to import clips. To get them from an *iMovie* event, go to **File > Get Media From > Files and Folders**. Navigate to your **Movies** folder, select the **iMovie Events** folder and choose the clips you need from one of them. Once they're highlighted, click **Import**.



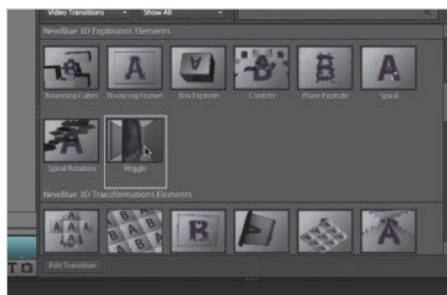
03 Preview and mark

Double-click a clip to preview it. You can drag its playhead to scrub through the footage. To choose a part you'd like to use, hit the **I** key at the start of the section and **O** at the end to set 'In' and 'Out' points. Then you can drag the video from that window onto the **Sceneline**.



>> QUICK TIP

The order in which you've added your clips in the **Sceneline** isn't set: to move clips around, drag one to the left or right. When you see a faint blue line before or after another clip release the mouse to set the clip in its new position.

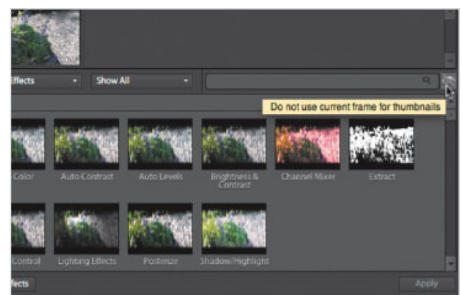


04 Build your edit

Add clips and slowly build your edit. The **Sceneline** is *Premiere's* basic timeline, aimed at simplifying your work. Each clip is the same size regardless of duration. To add a transition, click on the **Edit** button, top-right, choose **Transition** and drag one in between two clips.

06 Customise effects

Once you've added one or more effects to a clip, click the **Edit Effects** button in the **Edit** section. You'll be able to customise certain parameters with the help of sliders. Notice a small stopwatch icon to the right of each filter. Clicking on it allows you to alter the parameters over time, animating the effect (something we'll look at in a future tutorial). But this section isn't just for effects added to your clips; it also grants you access to basic settings like **Volume** control, **Opacity** and the clip's position and size, thanks to the **Motion** parameters. To the left of each setting is an eye icon. Click it to hide the changes you made and see what your clip would look like without that effect applied. ●



05 Add effects

All available effects can also be found in the **Edit** tab. There are a lot to choose from and you can drag as many as you want onto your clips. To get a preview of how each affects a chosen clip, select it in the **Sceneline** then click on the 'eye' icon, top-right of the **Effects** section.

You can include hyperlinks in a PDF document using Keynote.



Use hyperlinks in Keynote

Let viewers navigate your documents with useful in-line hyperlinks

»» KEY INFO



DIFFICULTY
Beginner



TIME NEEDED
30 minutes

WHAT YOU'LL NEED
iWork '09

When you think about a *Keynote* project, you generally think 'slideshow', but the software can be used for more than just a presentation. By adding hyperlinks to your document you can make the normally linear experience of clicking through slides a far more engaging process.

In this tutorial we'll be taking a look at a unique way to use hyperlinks in your *Keynote* document to link between pages and provide navigation. We'll also show you how you can add hyperlinks for email and web links to further enhance the experience for your viewer.

Creating a *Keynote* document in this manner has many benefits and uses. From creating an interactive

story where the user decides which direction to take, to a company briefing document with links relevant to individuals, there are endless possibilities. The finished product is a far more engaging document that helps keep its viewers interested where they may normally miss information as they casually click from slide to slide. Creating a document this way enables them to head to the areas

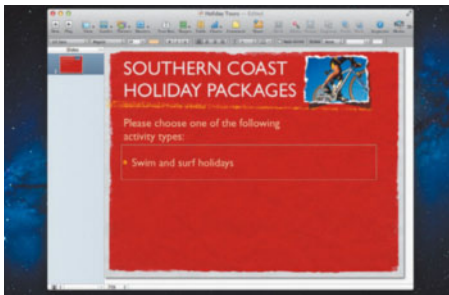
"Make the normally linear experience of clicking through slides a far more engaging process this way"

that interest them immediately. You can also export your finished document as a PDF that retains all of the links you have included, so almost any user on any computer can access and interact with your project. Exporting as a PDF also means that the file can be made small enough to email or download instead of you having to spend time giving a presentation.

To begin, you will need a blank *Keynote* project. You can apply this technique to an existing project as well, but it's often simpler to start from scratch in order to keep track of your links. If you want to use an existing project, try copying and pasting your slides in one at a time.

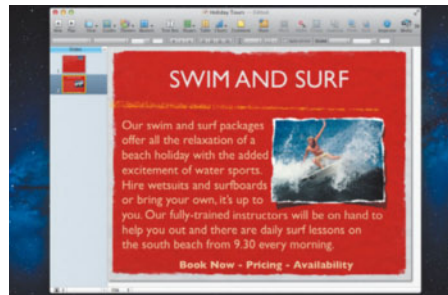
Ben Harvell

» HOW TO / Create an interactive PDF with Keynote



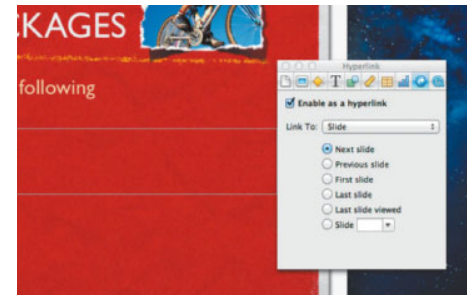
01 Start it up

Launch *Keynote* and pick a template for your slideshow. The first slide will be the launch pad that takes viewers to your other pages. Start by entering a name or topic to link to in a text box on your first slide, and position it where you want it to appear.



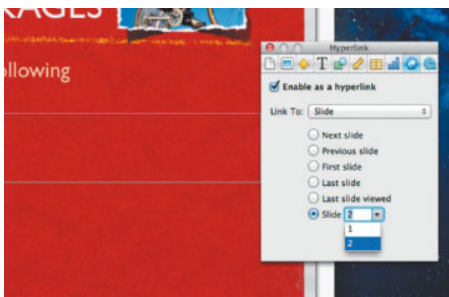
02 Slide in

Now create the slide that you want the text box you just created to link to. This will appear next to your first slide, but you can rearrange the order as you add more slides if you wish. Now head back to your first slide and highlight the text you added in Step 1.



03 Enable the link

Click the **Inspector** button to show the **Inspector** pane if it's not already visible, and click on the **Hyperlinks** tab (second from the right). Making sure your text is still highlighted, click on the **Enable as hyperlink** button to turn the text into a clickable link.



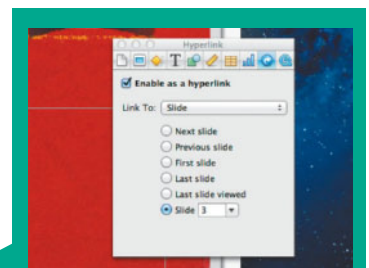
04 Destination unknown

You now have a number of options available to link to, but we want the hyperlink to move to the slide we just created. Select **Slide** from the drop-down menu, then check the **Slide** option from the list below. Add the number of the slide you just created in the text box.



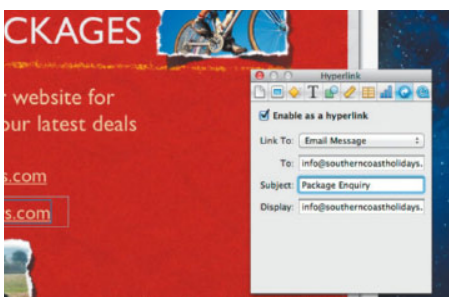
05 Check it out

Once you've enabled the hyperlink, the text will be underlined to show it is a link. Now create similar text boxes and new slides for all the topics you want to add to your slideshow and link them in the same way, setting the hyperlink to point to the relevant slide number.



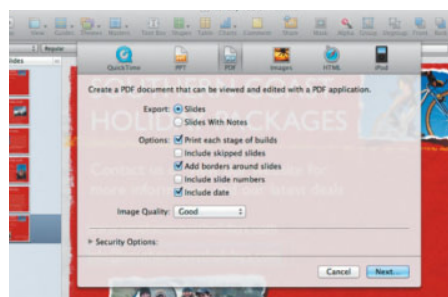
» QUICK TIP

If you rearrange slides, *Keynote* updates the existing hyperlinks for you. For example, if you link to slide two but then move that slide to make it the fourth slide, *Keynote* will update the hyperlink to move to slide number four.



06 Alternate links

You can also create links to web pages and email addresses. This can be a handy way to add your contact details to a slideshow or reference a topic on one of your slides with a web link. Do this by selecting the corresponding option from the **Inspector's Hyperlinks** tab.



07 Ready to share

When your slideshow is complete you can share it in a variety of ways. Head to the **Share** menu and select **Export**. The easiest way to share with your hyperlinks intact is as a PDF. Select the **PDF** tab then click **Next** to choose a save location for your document.



08 Test run

Your new PDF document will now be saved in the location you specified. Locate it in the *Finder* and then launch it with *Preview*, *Adobe Reader* or whichever PDF application you have handy. Now click each of the links in turn to make sure that they work correctly. ●

Use the OnLive games service

Getting started with this exciting new cloud gaming service is really easy

>> KEY INFO



DIFFICULTY
Beginner



TIME NEEDED
15 minutes

WHAT YOU'LL NEED

Intel Mac (can also use a HDTV, PC or iPad), internet connection of 2Mbps (5Mbps recommended), OS X 10.5.8 (10.6 recommended), screen resolution of 1024x576 (1280x720 recommended)

OnLive is a new way of playing video games. There's nothing to download, and no discs to insert. Instead of running on your local machine, the gameplay takes place on a cloud server, converting the in-game graphics to video and streaming them to your Mac or other OnLive-compatible device over broadband internet.

The quality of the visuals depends on your internet connection. If you only have 2Mbps, graphical detail is likely to be compromised, but at the recommended 5Mbps, they look great (there's a useful speed checker at www.bit.ly/nSSual). An Ethernet connection to your router is ideal, but you're generally okay with Wi-Fi 'n' too. We got mixed results using a homeplug AV connection, but the OnLive client is free and you can try most games before buying, so you've nothing to lose by giving it a go.

The service is platform-agnostic, and because the games run on the server, the OnLive client is compatible with any Intel Mac, regardless of its CPU or graphics processor. There's also a client for Windows PCs and (via a downloadable app coming this autumn) the iPad and Android tablets. You can even play OnLive games on your HDTV, using a £70 MicroConsole supplied specifically for this purpose. Best of all, your save positions and list of purchases are stored on the server, so when you buy a game you can play it from your

"OnLive is platform-agnostic, and because the games run on the server, it's compatible with any Intel Mac"

last saved position on any machine running OnLive.

Games that use keyboard and mouse controls such as first-person shooters will almost certainly work with your existing setup, but the Magic Mouse and Mighty Mouse are poor tools for gamers. We recommend a dedicated gaming device such as the Cyborg R.A.T. series. But at the very least, you need something that lets you press both buttons at once – if you need to throw a grenade while shooting, your (virtual) life might depend on it. Check the support pages at www.onlive.co.uk for a list of compatible joypads too. There's one bundled with the MicroConsole, but it won't work on any other OnLive platform. A universal OnLive joypad, compatible with any Bluetooth-enabled device, is coming soon.

Ian Osborne

>> HOW TO / Navigate OnLive's key features



Marketplace

Buy, rent and trial your games here, or subscribe to a bundle.

My Games

A list of the OnLive games you have access to. The bundle is shown here for subscribers.

Brag Clips

Watch 10-second clips recorded by other gamers here.

Arena

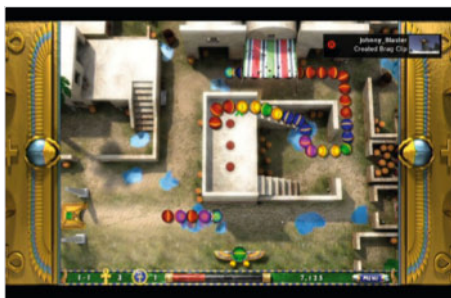
Watch others play OnLive games and vote on their performance.

» HOW TO / Play OnLive games



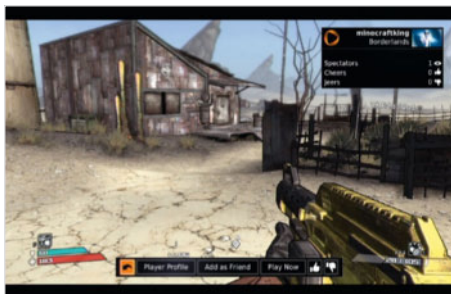
01 Get an account

Follow the sign-up link at www.onlive.com and choose a password and gamer tag. After successfully registering, complete your gaming profile, add billing information and download the OnLive app. Install the app and log in using your new gamer tag and password.



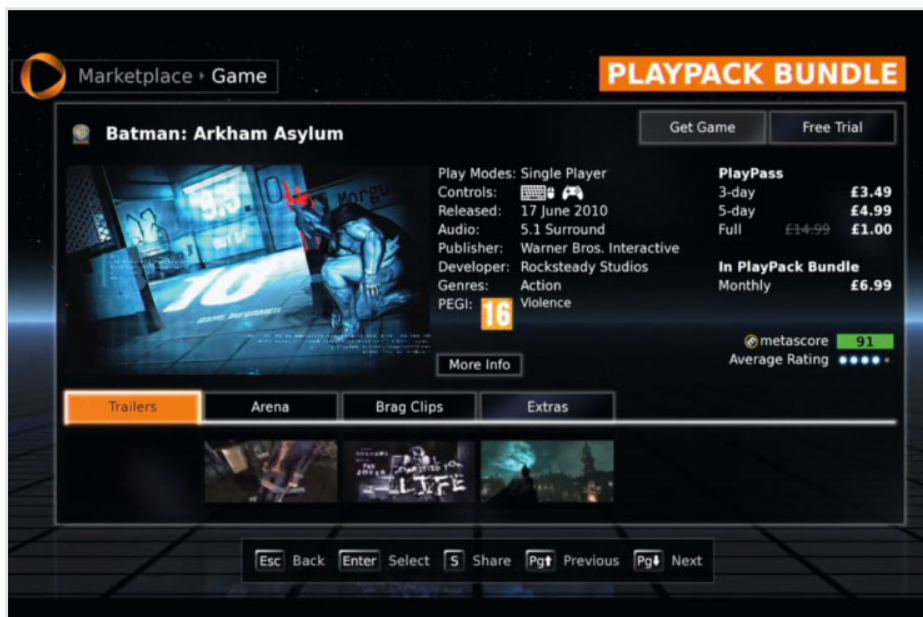
02 Brag Clips

You take a Brag Clip on a Mac by pressing **⌘+B**. The last 10 seconds of gameplay is automatically preserved in a video. You can review and delete saved Brag Clips in your profile, and upload them to your Facebook wall or the OnLive service's Brag Clips section.



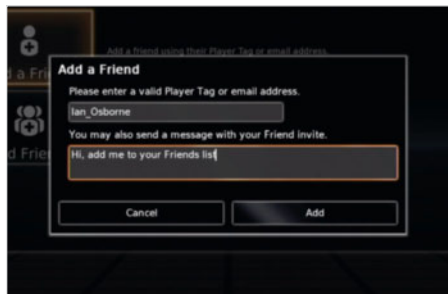
03 Spectating

In the **Arena**, you can watch others play OnLive games, which is a great way of picking up tips and strategies. Here we're watching someone play *Borderlands*. From the spectator's screen, you can cheer or jeer the gamer, or invite him or her to join your **Friends** list.



» QUICK TIP

If you have a gaming headset, you can chat during multiplayer games, or while watching fellow gamers play in the **Arena**. If you don't have a mic, use **Listen Only Mode**. Voice chat is currently in beta. Find out more at www.bit.ly/nTKgwY.



04 Find your Friends

To battle your OnLive-gaming friends in online multiplayer match-ups, you can invite them to your **Friends** list by entering their Player Tags. You can also find them by searching with your Gmail contacts list. More webmail providers will be added soon.

06 Buying your Games

To buy a game: go to the Marketplace, click on a game and then press the **Get Game** button to buy it. There are several buying options. You can buy the full game, and play it as much as you like. Three-day and five-day **PlayPasses** are available, allowing you to rent the game, and the **Free Trial** button gives you 30 minutes of play without paying anything. Another option is the **PlayPack Bundle**. For a £6.99-a-month subscription, you get unlimited play for every game included in the bundle for as long as you subscribe. Saved information from rented and **PlayPack Bundle** games are kept on the server, so there's nothing stopping you from picking up where you left off. ●



05 Platform agnostic

You can play OnLive games on numerous computing platforms. On the Mac and Windows PC, you just download a free OnLive client. Apps for the iPad and Android tablets are coming soon, and you can play on your TV using a MicroConsole (pictured above).

Activities sidebar

Your activities, sorted by **Location**, **Date**, **Distance**, **Duration**, and your judgement from 1 to 5 stars.

LOCATION

- Birmingham 76
- Harborne 1
- Cockermouth 1
- Croydon 1
- Norfolk 1
- Wymondha... 1
- Sheringham 1
- Somerset 3
- Wales 2
- Portmeirion 1

DATE

- Yesterday 1
- This Week 1
- Last Week 3
- September 3
- August 12
- 2011 85

DISTANCE

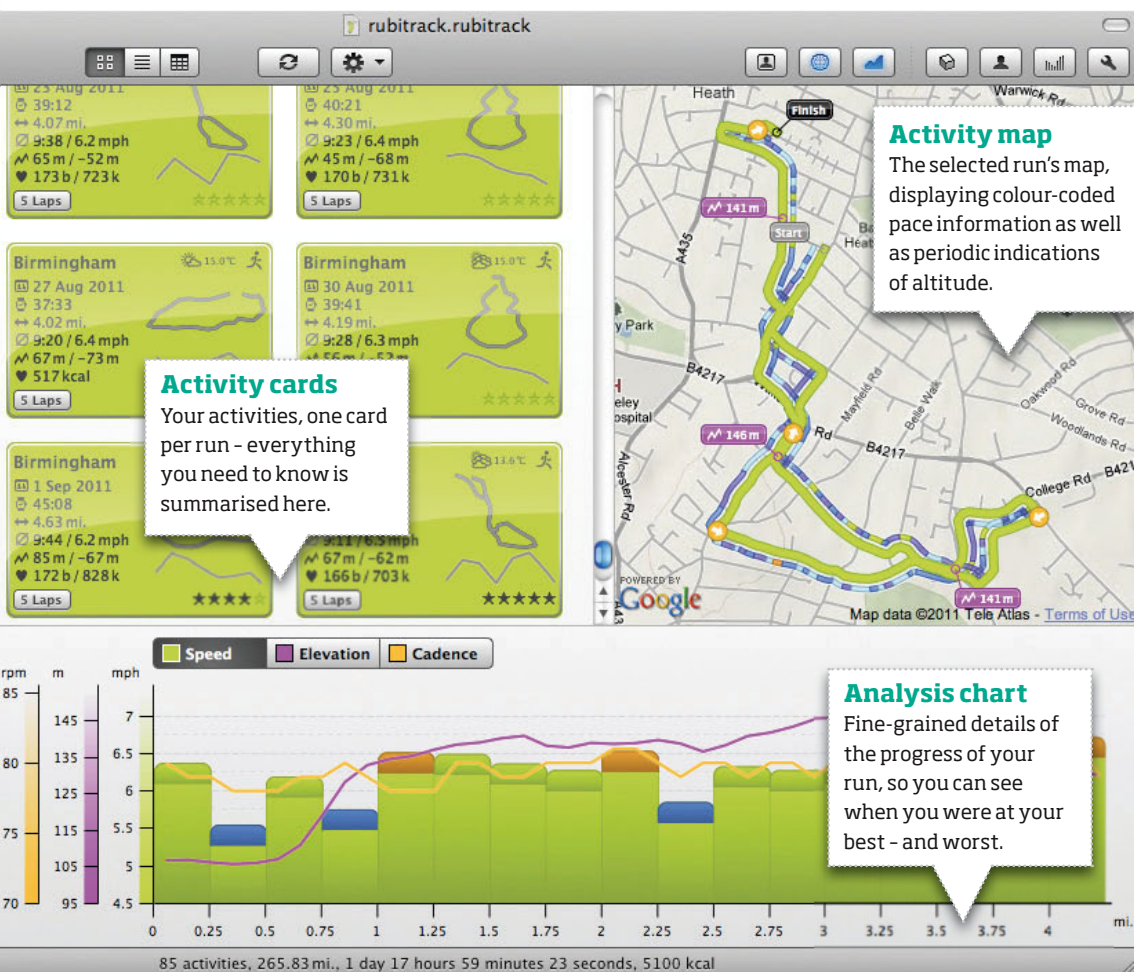
- 0 - 5 mi. 85

DURATION

- 0 - 30 min 46
- 30 - 60 min 39

RATING

- ★★★★★ 1
- ★★★★ 1



Keep track of your fitness

Whatever your exercise regime, your Mac can help follow your progress

»» KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
15 minutes

WHAT YOU'LL NEED
Running shoes, rubiTrack (€29 free trial at rubitrack.com), iPhone or other GPS tracker

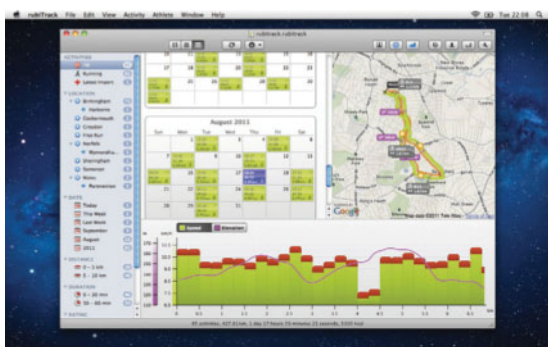
Maybe you're a serious athlete, and already keep track of your workouts in some form or other. But if you're a beginner or a casual runner, you might want to think about doing so, because knowledge is power, and having a good record of what you're already achieving could help you improve your performance. Just seeing your progress can be hugely motivating - keeping track of where you've already been might help you get out the door again tomorrow morning. As ever, your Mac and iPhone are fine companions as you pull on those trainers and get ready to run.

There are a number of online services that can help you to track your workouts, but if you're not interested in social exercising, if you generally prefer not to share your information online, or if you like to keep your data on the desktop, then *rubiTrack* is a great option. If you enjoy keeping track of the details of your exercise, *rubiTrack* can be inspiring and instructive. It might even be fun as you compete against your past performance and see if you can beat your previous best time.

Ian Tromp

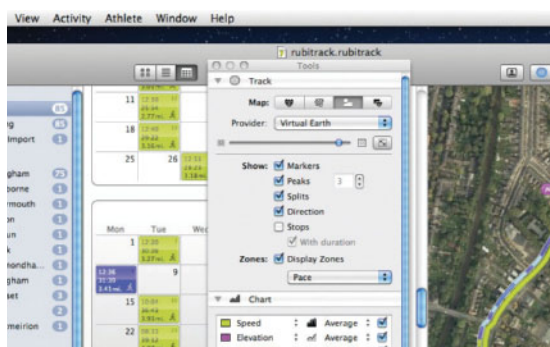
**01 All sports welcome!**

Although we'll mostly be talking about running, *rubiTrack* can keep track of all kinds of activities. If the built-in categories - from Biking and Windsurfing to Shopping and Snow Shoeing - aren't enough, you can select **Other Activity**. Once workouts are imported, you can change their type by clicking on the icon top-right of the individual card in Activity Collection view.



02 Choose a view that suits you

The most important part of the main window is the list of your activities. You can select from three different ways of displaying your information: in **Activity Collection** view, as in the main screenshot; in **List** view, which allows you to choose from and sort your entries under a number of different column headings; or in **Calendar** view, as here.



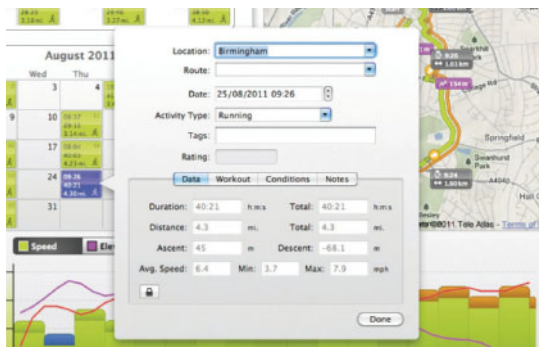
04 Customise your map

Call up the **Tools** menu (**⌘**+**T**) or the spanner icon in the toolbar to customise aspects of the map or track. Select from different map providers, choose between a topographical or satellite view, and show or hide various measures of your performance. Different zones are mapped in different colours - here we're highlighting pace.



06 Analyse your performance

What's displayed in the chart is also determined by what information your tracking system recorded. Here you'll see that we're showing **Speed**, **Elevation** and **Heart Rate**. Clicking any one of the headings will bring that information into focus. Use the **Tools** menu to adjust how the details of your workout are displayed.



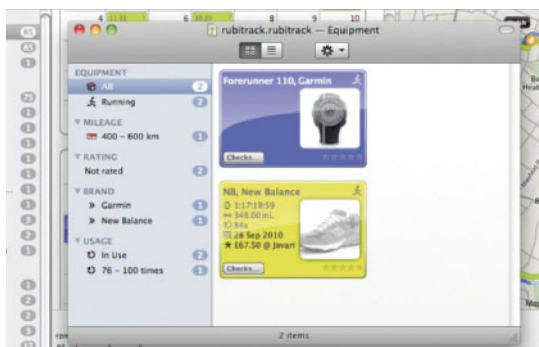
03 Edit details, add impressions

Double-clicking an activity lets you edit certain details of that workout - **Location**, **Route**, **Activity Type** - and add tags or a rating. You can also input notes to record how you felt: your mood, physical condition, and the intensity of the workout. The **Data** and **Workout** tabs summarise various aspects of the particular run.



05 Pinpoint focus

Clicking anywhere on a run path brings up details of exactly that point in the run. What you see here will be determined by what data was recorded as you ran: time, distance, pace, speed, altitude, incline, heart rate, calories burned so far, and cadence. Different iOS apps or GPS equipment will track some or all of these.



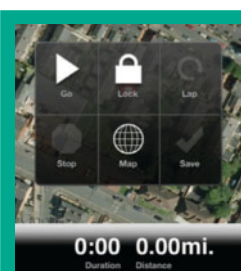
07 Time for new shoes?

The **Equipment** window helps you keep track of your exercise kit, whether it be a bike or a pair of trainers or skis. Each time you log an activity against a piece of equipment, the records of mileage, number of uses, and time in use will be added to. This is helpful in keeping tabs on when it might be time to invest in some new gear. ●

>> EXPERT TIP

Syncing

rubiTrack can sync with a wide range of devices, from Wi-Fi scales to heart-rate monitors and multifunction devices like the Garmin range of GPS-enabled sports watches. We tested the app with a couple of different iPhone apps and with a Garmin Forerunner 110 watch (RRP £180). The watch worked right out of the box, locked onto satellites quickly, and with the optional heart-rate monitor provided precise and accurate details of workouts in a form that was easily viewed in *rubiTrack*. Simply plug it into the Mac via its USB cable and hit the **Sync** button, and the app does the rest of the work.

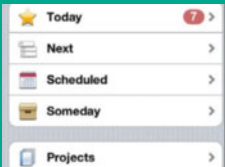


>> QUICK TIP

Although *rubiTrack* for iPhone feeds directly into the desktop app via Wi-Fi, you can import data from any iOS app that exports in GPX or TCX formats - such as *RunMeter*.

Work with more focus

Cut the clutter and make your Mac a more productive working environment



>> QUICK TIP

Use Spotlight as an app launcher to avoid distractions in your **Applications** folder. It works on partial names, so type 'snapper' rather than little for *LittleSnapper* and you won't also be offered *Little Snitch*.

Distractions are everywhere on your Mac. Cut them out and get more done in half the time.

Read the groundbreaking book, *Getting Things Done* by David Allen, and you'll discover the author sets out a simple plan to help us use our time more effectively. Subtitled *The Art of Stress-Free Productivity*, his deceptively simple step-by-step process for decluttering your brain, work life and workspace has proved a success for countless adherents, and won him plaudits and fans around the world.

The book states that the key to getting things done is drawing up lists of things to do and cutting distractions. And distractions can be anything from picking up the kids from school or feeding the cat, to playing around with the opening sentence of a book you might be writing. None of these tasks will be immediately important at nine in the morning when you ought to be starting work, so all they're doing is stopping you from being productive.

By noting them all in a series of lists, Allen posits, you can clear out your cluttered mind and work on one thing at a time, safe in the knowledge that you won't forget to do all those other things that are safely recorded somewhere else. He makes an exception for two-minute jobs, which you ought to do right now to get them out of the way, but otherwise leave them alone. Stay focused, remove those distractions, and watch your productivity rocket.

You can apply much of what Allen suggests in your day-to-day Mac-using life. Here we'll take you through

"This simple process for decluttering your brain, work life and workspace has proved a success"

three essential steps to being more productive: organising your tasks, removing distractions and keeping your mind on the job.

Organising your tasks

OS X's default *Mail* app has a very simple to-do feature in the shape of *Notes*, which will synchronise with the iPhone app of the same name. *iCal*, too, lets you handily set deadlines, and can synchronise with Google Calendar, iCloud and, for the moment, MobileMe, to keep to-do lists in step with one another across multiple platforms.

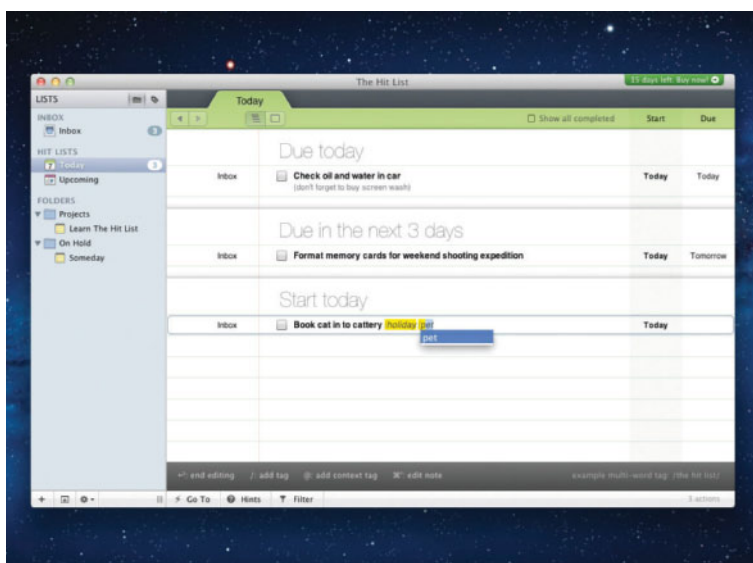
Yet neither can rival a dedicated task manager, where *Things* and *The Hit List* lead the pack.

Things (£35 from the App Store <http://bit.ly/iOscoq>) is an Apple Design Award winner, and it's easy to see why. Its muted, understated interface makes it clear exactly which jobs lie ahead of you today, tomorrow, and further into the future. There is also a handy 'Someday' option, a key pillar of Allen's method, giving you somewhere to note your dreams and desires, such as buying a yacht and spending a year exploring the Med. A quick entry shortcut greatly simplifies the job of entering new tasks, and because each one can be given keywords and added to specific projects it's a great reviewing tool, too, allowing you to look back and see how much time you've spent on specific areas of work.

It synchronises with companion iPhone (£6.99 <http://bit.ly/pbFLGu>) and iPad (£13.99 <http://bit.ly/nBLsil>) apps across your local network, but not over the internet, so unless you remember to force a synchronisation before leaving home or work you might find yourself with an incomplete list of jobs at the other end of your commute.

The Hit List (£35 from the App Store <http://bit.ly/nmyuAr>) gets around this problem by allowing over-the-internet synchronisation with its companion iPhone app





The Hit List is an essential app that enables you to rein in the chaos of your everyday life.

(£6.99 <http://bit.ly/rf8EH3>), but it comes at a price. Synchronisation is an in-app add-on at £1.49 a month or £14 a year.

If you're happy to get your hands dirty rolling your own GTD-style task manager, then consider *Wunderlist* (free from <http://6wunderkinder.com/wunderlist>), which has been nominated as Web App of the Year by *MacFormat's* sister title, *.net* magazine. This synchronises as many tasks as you can throw its way through your own online account to whichever platform you happen to be using (and we really do mean whichever, as there are free *Wunderlist* clients for OS X, iPhone, iPad, Windows, Android and Linux).

Get going

The first time you run it, you'll have only one list in place – Inbox – but you can add to this to help you split up jobs according to project, areas of responsibility or, as with *Things*, vague timeframes, creating your own 'Sometime' list to gather together all of those jobs that you'll do one day, but not just yet.

It's essentially an online service with the local client apps presenting a view of your online list and writing new tasks to it, so your jobs are always backed up remotely. You can even add to them by sending an email to your own dedicated *Wunderlist* address, which makes it easy to update your list of jobs from any connected computer, without logging in to your account.

See our tutorial on creating task lists with *Wunderlist* in MF240.

Removing distractions

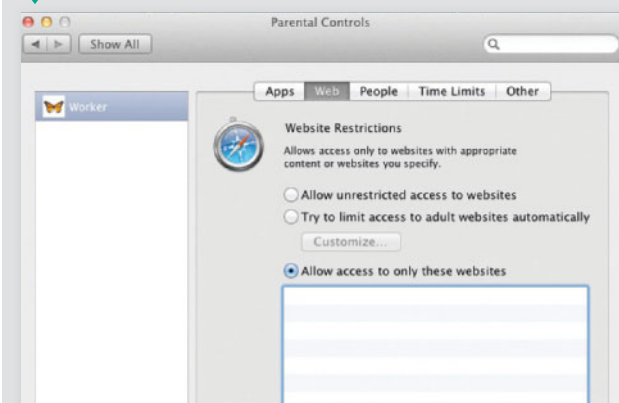
With all of your jobs neatly organised into lists, it's time to start ticking them off. Clearly the quicker you can do this, the better, so we need to look at the way your Mac works and how it can also help minimise productivity-sapping distractions.

"This syncs as many tasks as you want through your own account to whichever platform you're using"

If you've already switched to OS X Lion, you will have seen its new full-screen feature. Several core apps – *TextEdit*, *Mail* and *iPhoto* among them – now sport arrows in the top-right corner that switch you into full screen, ditching the Dock and menu bar for extra app real estate. Fire up Mission Control and you'll see that each one has been elevated in importance and now sits in a line among your regular desktops.

Full screen mode puts you one click away from distractions such as Twitter, email or desktop icons that litter the edge of your screen. It's a core feature in OS X 10.7, with Apple leaving open the underlying hooks so that third-party coders can build it into their own applications.

HOW TO / Work, not web



Parental Controls is a handy way of locking down internet access.

The web is a wonderful research resource, but it's also the biggest distraction of modern times. If you find it keeps you from staying focused, then create a new user account and use *Parental Controls* to lock down internet access on that account during working hours.

Click **System Preferences > Parental Controls** and select

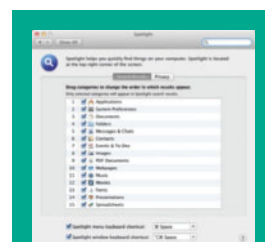
Create a new user account with parental controls.

Give the account a username and password and then click the **Web** tab. Select **Allow access to only these websites** and remove all of the authorised sites from the default list. Save your setting, log out and log back in as your new user, free of online distractions.

Already *Scrivener* and *iA Writer* and a host of other headline apps are following *Pages'* lead to offer native full-screen modes, but still there are plenty of everyday tools that haven't yet seen the light.

Word has had its own variation on full-screen support since *Office 2011* hit the shelves, and *Photoshop* has long allowed you to shunt your palettes and toolbars off the screen to maximise your working space. On that score, though, these applications are part of a small minority. Only a few third-party applications have implemented full-screen working, and for some it wouldn't even be appropriate. You don't need a full-screen calculator, and it's unlikely that a full-screen calendar would help you organise your dates any more quickly. And, in such instances, there is a call for an alternative solution...

Think (free from <http://freeverse.com/mac/product/?id=7013>) lets you run your applications in windows rather than full screen, just as their developers intended, while blotting out everything else on your display. It's up to you to what degree everything else is dimmed, but at >>



QUICK TIP

Force applications to appear at the top of the Spotlight results list so you can launch them more quickly. Open **System Preferences > Spotlight** and drag the **Applications** line-up to the top of the list.



>> QUICK TIP

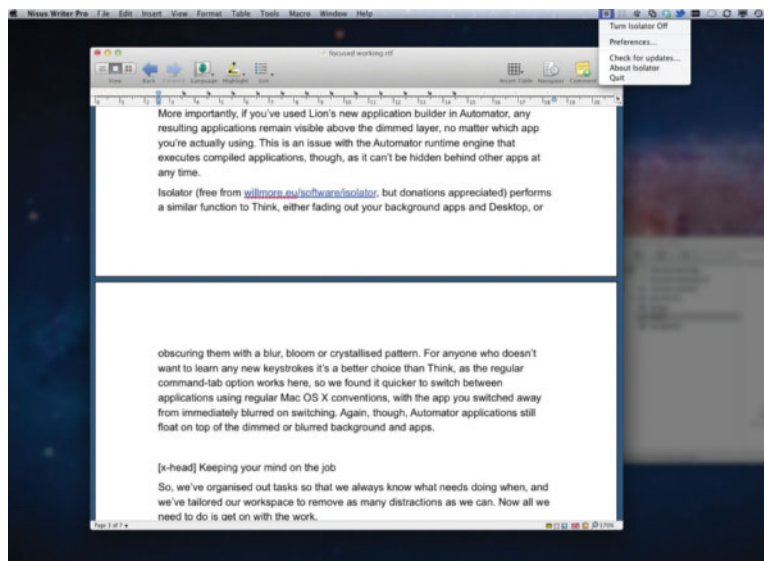
Reduce your Dock to just the apps onto which you'll drag files, such as *Mail* (for attaching to messages) and *Preview* (for opening PDFs). Fewer icons equals fewer distractions and helps you find your most important apps a lot quicker.

its most extreme you can completely obliterate them with the background colour of your choice. By default this is black, which we find the most relaxing for our eyes, but if you prefer cool green, vibrant red or anonymous grey, they're available – alongside any other colour addressable through the regular OS X colour picker.

Think again

Think has two minor shortcomings: pressing $\text{⌘} + \text{⇧} + \text{⌘}$ to another app switches you, as you'd expect, but without dimming the application you've switched away from. This can leave you with two overlapping windows visible on screen. Instead you'll need to call up *Think*'s own app-switcher bezel by hovering over its head up display until it fades into view, or clicking its icon in the Dock. Alternatively, supplement $\text{⌘} + \text{⇧} + \text{⌘}$ with a further $\text{⌘} + \text{⇧} + \text{⌘} + \text{⇧}$ to correct the focus. It's a bit of a finger shuffle, but it does the job.

More importantly, if you've used Lion's new application builder in *Automator*, any resulting applications remain visible above the dimmed layer, no matter which app you're



Isolator will obscure distracting backgrounds to give you total focus on the task in hand.

"We've tailored our workspace to remove distractions – all we need to do now is get on with the work..."

actually using. This is an issue with the *Automator* runtime engine that executes compiled applications, though, as it can't be hidden behind other apps at any time.

Isolator (free from <http://willmore.eu/software/isolator>, but donations appreciated) performs a similar function to *Think*, either fading out your background apps and desktop, or obscuring them with a blur, bloom or crystallised pattern. For anyone who doesn't want to learn any new

keystrokes it's a better choice than *Think*, as the regular $\text{⌘} + \text{⇧} + \text{⌘}$ option works here. This meant we found it quicker to switch between applications using regular OS X conventions, with the app we switched away from immediately blurred on switching. Again, though, *Automator* applications still float on top of the dimmed or blurred background and apps.

Keep your mind on it

We've organised our tasks so that we always know what needs doing when, and we've tailored our workspace to remove as many distractions as we can. Now all we need to do is get on with the work.

Sitting at your desk for hours on end may seem like the only way to

>> HOW TO / Exploit shortcuts

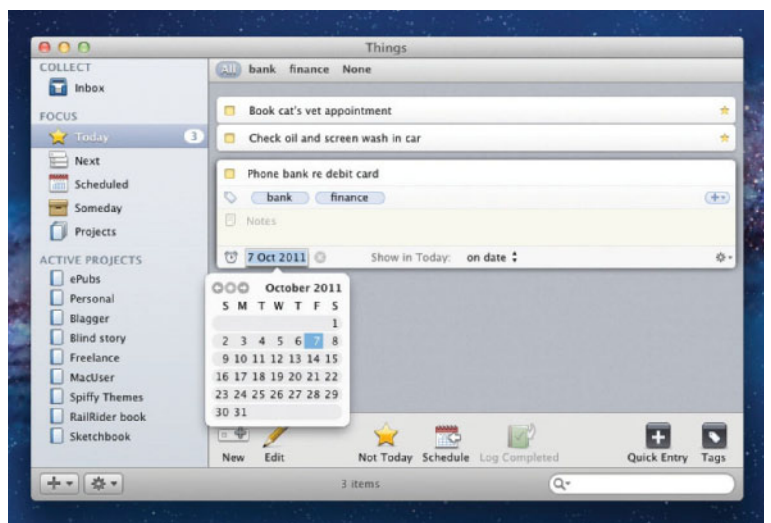


Get into the good habit of using shortcuts to improve your workflow.

Stay focused by finding, switching and opening apps using these essential shortcuts rather than wasting time clicking around your Mac.

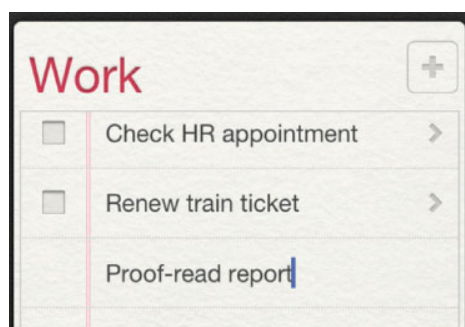
- $\text{⌘} + \text{⇧} + \text{⌘}$: cycles through active applications. Hold ⇧ to reverse direction and press ⌘ without letting go of ⌘ to kill the highlighted app.
- $\text{⌘} + \text{⇧} + \text{H}$: hides everything but the current application.

- $\text{ctrl} + \text{⬆}$: Opens Mission Control
- $\text{ctrl} + \text{⬆}$: Shows all windows of current app
- $\text{⌘} + \text{⇧} + \text{L}$: This key combination looks up current selected words or phrases from any application within Google, using your default browser, to save you getting distracted by other pages and favourite bookmarks on the way. Handy to avoid procrastination...

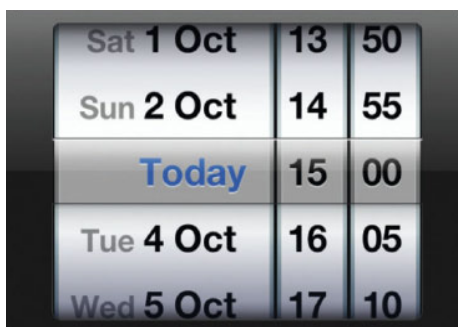


Things' low-key interface makes for easy distraction-free organisation for your work.

>> HOW TO / Create context-sensitive reminders in iOS 5 on an iPhone or iPad

**01 Add some tasks**

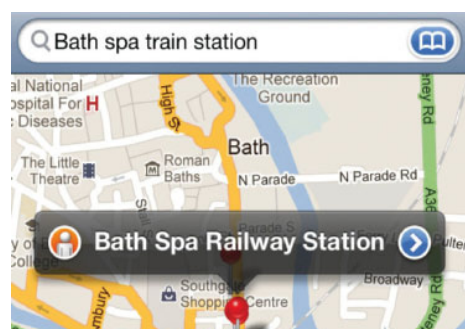
Tap + and start typing in active tasks. *Reminders* assumes you want to add more than one, so carry on with the second after pressing [Enter]. Tap **Done** after entering the last one to hide the keyboard. It's time to set some targets.

**02 Add a deadline**

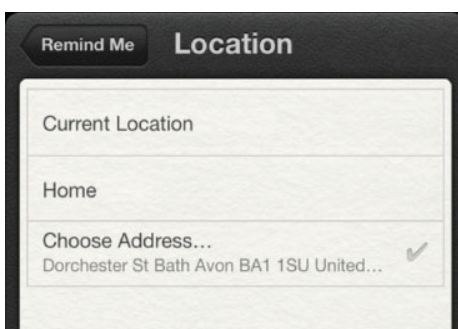
Tap a task to open its details, then tap **Remind Me**, followed by the ON/OFF slider beside **On a Day**. The current date appears; tap this and use the tumblers to select the date and time you need to complete the job. Tap **Done**.

**03 Location jobs**

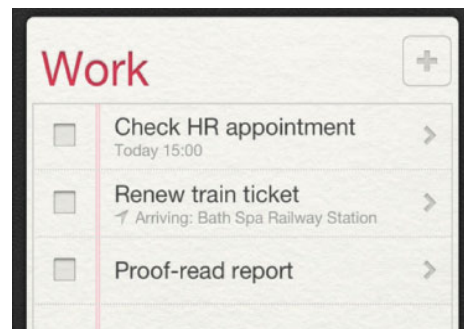
Allen's Getting Things Done also considers places where tasks must be completed. Tap **Renew train ticket**, followed by **Remind Me** and the slider beside **At a Location**. Tap **When I Arrive** to be reminded when you reach a location.

**04 Find your location**

Job locations must feature in your address book, so switch to **Maps** and find the venue where the job will be conducted. Tap the blue lozenge on the end of its bubble and tap **Add to Contacts**, then switch back to **Reminders**.

**05 Add it to the job**

Tap **Current Location** followed by **Choose Address...** Use the *Contacts* app's search bar to find the new contact you have added and tap its name in the list. It will drop into the **Location** box and be pre-selected. Tap **Remind Me** to step back.

**06 Get on with life**

Your iPhone monitors your location and gives a reminder to buy a ticket when it detects you arriving at the railway station. The **Location Services** indicator – the compass arrow on the clock bar – shows it tracking your movements. ●

work your way through a huge pile of jobs, but it's rarely the most effective. Anyone who has ever studied for exams will know that the brain works best in short spurts, with a rest period at the end of each one – a theory that was formalised by Francesco Cirillo as the Pomodoro Technique (www.pomodoratechnique.com) during his student days in the 1980s.

The technique is extremely simple and easy to get to grips with. It calls for regimented working sessions of 25 minutes each, with a five-minute break after the first three and a longer break of 15 to 20 minutes after the fourth. It got its curious name – tomato in Italian – because when he was developing it he used a

tomato-shaped kitchen timer to keep track of each session.

Fortunately, you needn't do the same, as the technique has been developed into a dedicated *Pomodoro* app (£2.99 from the App Store <http://bit.ly/pqMcvl>). This integrates with *Things* and *OmniFocus* to add *Pomodoro*-timed tasks to your existing job lists, and will even brag

"Anyone who has studied will know the brain works best in short spurts, with a rest at the end of each"

about how efficient you are by optionally posting tweets and setting your *iChat* status to reflect what you're working on.

With its promise of regular short rewards, we've found it an effective tool for keeping our minds on the job in hand and working in an efficient, measured way through a long list of daily tasks.

You can download a free PDF copy of Cirillo's book on implementing *Pomodoro* (translated into English) from www.pomodoratechnique.com/resources/ThePomodoroTechnique_v1-3.pdf – get it now!

And there you have it, effortless focus courtesy of your Mac.

Nik Rawlinson



>> QUICK TIP

Instead of obsessively checking for new messages, shut down *Mail* and just open it a couple of times a day, dealing with new messages there and then.

Stream video around your home

Use StreamToMe to send your media from Mac-to-Mac and Mac-to-devices

» KEY INFO



DIFFICULTY

Intermediate



TIME NEEDED

15 minutes

WHAT YOU'LL NEED

StreamToMe 3.6+, OS X 10.6+, ServeToMe 3.6.4+, a Mac and at least one additional Mac or iOS device, 2.4GHz dual-core CPU recommended for 720p video.

Depending on how old you are, you'll have lived through a number of major shake-ups regarding video accessibility. Not that long ago, you had to make do with whatever the broadcasters served up, but since the mid-to-late 70s, things have moved on.

First, home videocassette recorders, or VCRs, enabled you to tape one channel while watching another; then Laserdisc and DVD arrived, making watching prerecorded video a less linear and painful experience, since you could easily jump to new scenes and episodes. Largely thanks to YouTube and rapid improvements in the speed of web connections, online video has become phenomenally popular, making it even easier to access and share video. Today, Apple's attempting to encourage everyone to bin optical media for good. It wants you to move entirely to digital video, which, naturally, it makes available via *iTunes* podcasts and purchases that can be viewed on a Mac, PC, iOS device or Apple TV.

Stumbling blocks

There are, however, issues regarding video that relate to legacy or ripped content, and also storage limitations. Because video files tend to be huge, it's common for them to be stored on



Use AirPlay to send video from your Mac to your TV, via your iPad and Apple TV!

a home's 'central' Mac; start storing loads of video on Apple kit with limited storage – iPhone, iPod touch, iPad, MacBook Air – and you'll fast run out of space. And so if your main Mac's tucked away in an office, your video remains out of reach when you're in another room, relaxing with a notebook or iOS device. If you've Home Sharing turned on in *iTunes*,

naturally, we're only covering the Mac version here) and provides access to user-defined sets of media. The client is then installed on a Mac or iOS device, enabling you to access and view said media over your wireless network; as an added bonus, the software transcodes popular video formats so they'll play on your iOS devices. Note, though,

"There are issues with streaming video that relate to legacy or ripped content. However, StreamToMe cuts through all of these"

you may be able to copy or watch some content, but that will be limited to what you've got lurking in *iTunes* and, in the case of iOS devices, to H.264 video. And that's the other problem: if you've ripped your DVD collection to your hard drive, or have files in formats *iTunes* doesn't deal with, such as AVI or MKV, they won't play on your iOS device without third-party software, and even then you're lumbered with storage issues.

StreamToMe cuts through all these problems. It comprises two parts: a server and a client. The server is installed on a Mac (or PC, but,

that StreamToMe can't play encrypted content from *iTunes*, such as pre-*iTunes* Plus music and commercial video.

On the following page, we detail how to set up the server component and how to use the StreamToMe client on your Mac or iOS device. At the time of writing, *StreamToMe for Mac* was free from the Mac App Store, while the server, *ServeToMe*, is permanently free. The iOS app for using StreamToMe is universal and works on the iPhone, iPod touch and iPad; it's £1.99 from the App Store.

Craig Grannell

StreamToMe enables you to watch video on your network without first transferring it to a device.



» HOW TO / Master StreamToMe

01 Install the server

Go to <http://bit.ly/aPmDZ9> and download *ServeToMe* to your Mac. Clicking the link will save a DMG file to your **Downloads** folder. Double-click the DMG and drag *ServeToMe* to **Applications**. Once that's done, **ctrl**-click the *ServeToMe* window and select **Eject** (or eject it using a *Finder* sidebar). From your **Applications** folder, launch *ServeToMe* and click **Open** when you get the security dialog box. *ServeToMe*'s preferences will automatically open and the server will start running. You can start and stop the server at any time (and also access the preferences window) from the menu-bar icon.

02 Configure the server

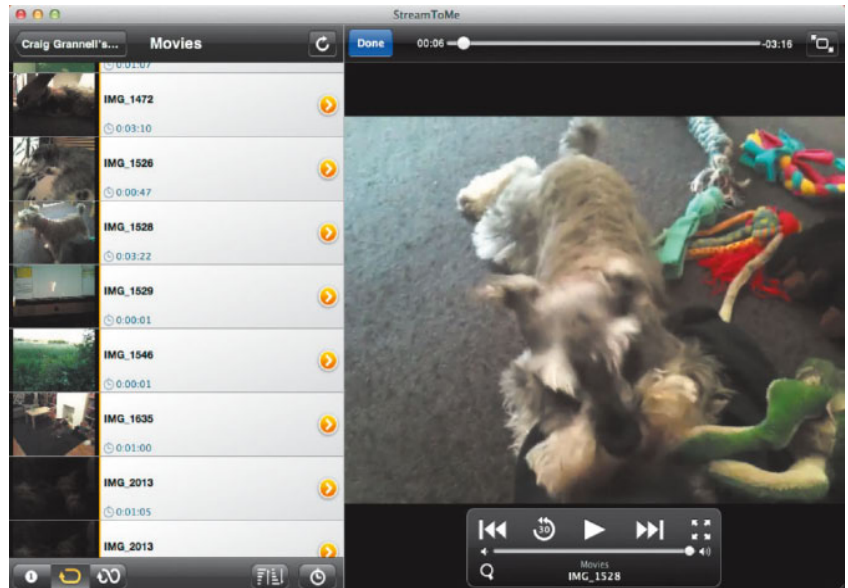
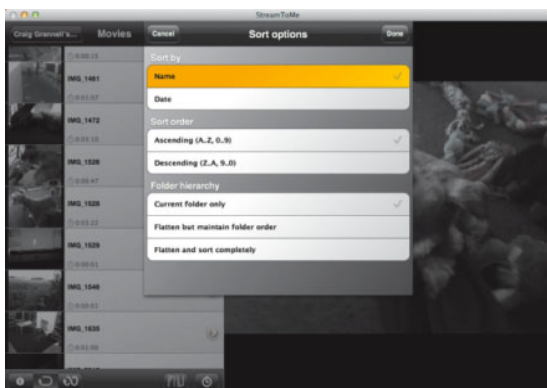
By default, the server will output 480p video. This can be set to 720p if you have a fast network and a speedy computer for the server. (Use the highest setting at first and only reduce it if you encounter stuttering video.) Both *iTunes* playlists and *iPhoto* albums are set to share - uncheck the relevant checkboxes under **Library integration**. Finally, the **Shared folders** setting provides you with the means to define which folders *StreamToMe* apps will have access to. Initially, your **Movies** folder is selected, but you can use the '+' button to add more; for example, you could add ~/Downloads, or a folder on an external drive where you store videos.

03 Install the Mac app

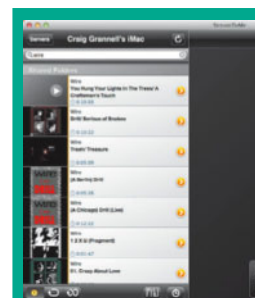
Install *StreamToMe* from the Mac App Store and launch it. The first thing you should see is the computers you've installed *ServeToMe* on, listed under 'Local servers'. If you install the server software on a new machine, click the refresh button to update the list. Click one of the computers and you'll see a list of defined shared folders, followed by *iTunes* playlists and *iPhoto* albums.

04 Use the Mac app

Click a folder to access it or an item to load it into the main viewing area. When watching a video, hover the cursor over it to access a progress bar (drag the widget to skip to a later part of the movie) and standard playback controls. Click the four-arrows icon or use **⌘+F** to go to full-screen, and use the button at the top-right to toggle



StreamToMe for Mac enables you to view videos and photos and listen to audio from local Macs.



» QUICK TIP

Both the Mac and iOS versions of *StreamToMe* provide search functionality. Access a server and then click or tap within the search field, add a term and hit **⌘** or tap **Search**. Matching items will be listed.

The sort order and looping of a folder of content can be configured to suit your requirements.

between cropped and widescreen. Images and audio work in much the same way, with images defaulting to a slideshow format, with eight seconds per image.

05 Loop and sort content

At the bottom of the left-hand pane are several buttons. The set on the left determines whether or not items within the current folder loop. When clicked, the leftmost button, marked '1', will ensure that only the current item is played. The second button will play everything within the folder in order. The third button randomises playback. The two buttons on the right are for accessing sort options and your history. The latter enables you quick access to media you've recently played, and you can clear the list by clicking the 'Clear' button at the top-right. The sort button provides access to various options for sorting the current content; these change according to the type of media you're playing. For video, you can sort by name, modification date or file type, and in ascending or descending fashion; additionally, there's an option for playing only items within the current folder or flattening the folder hierarchy - useful if you've a bunch of videos within folders that you want to play one after the other.

06 Move to iOS

The iOS version of *StreamToMe* is functionally extremely similar to the Mac version. The two big advantages to it are the aforementioned transcoding (meaning that you can watch files of types not supported by Apple's iOS apps) and AirPlay support. For the latter, you can cue up a video on your device, tap the AirPlay controls and then send it to your Apple TV - a simple means of getting content from your Mac to your TV. Note, though, that you'll need a reasonably speedy network to fling high-quality video around! ●

Use Mission Control

Make the most out of OS X Lion's new nerve centre

» KEY INFO



DIFFICULTY

Intermediate



TIME NEEDED

20 minutes

WHAT YOU'LL NEED

OS X Lion

When you've got loads of different apps running at once on your Mac – *Mail, Safari, Pages, iTunes* and so on – finding your way between all the windows can get confusing. Mission Control, OS X Lion's new nerve centre, is designed to make that easier by showing you everything that's running on a single, simple-to-navigate screen.

It's never more than a click or gesture away – if you've got a Magic Mouse, double-tap two fingers on the top. Alternatively, if you have a Magic Trackpad or a recent Mac notebook, lay three fingers on the pad and move them upwards. Or, press the key on your Mac's keyboard marked with squares. On new keyboards, it's **⌘** (users of older keyboards, look for the key with rectangles). Apple calls this the Mission Control key.

Laurence Cable

Make Mission Control appear

As well as using the gestures we described in the introduction, there are other ways to make Mission Control appear. OS X treats it like an app, so you can add its icon to your Dock by dragging it there from your **Applications** folder. Alternatively, use the **Hot Corners** button in the **Mission Control** pane of **System Preferences** (see right).



Getting out of Mission Control

You can repeat the gesture you used to open Mission Control – a two-finger double-tap on your Magic Mouse or a three-finger slide up on your trackpad. Alternatively, click one of the windows to make it appear, or click elsewhere on the screen to go back to the app you were using.



Spaces

Along the top of Mission Control are your spaces. *Dashboard* is a space, as are your desktops and full-screen apps. Swipe left or right with two fingers on a Magic Mouse to move between these spaces, or with four fingers on a trackpad. You'll find them in the order they sit at the top of Mission Control, and you can also click the little thumbnail to make that space appear instantly.



Multiple Desktops

When you first enter Mission Control, the windows you see in the lower area are the ones that are open on the main desktop. You can add more than one desktop, which enables you to keep different types of apps separate. You can have different background images for each desktop too: alter it for a given one in **System Preferences > Desktop & Screen Saver**.



Working with several desktops

Add an app or window to a desktop by dragging its window over one. If you've only got one desktop set up, move your pointer to the top-right corner and you'll see a + sign appear. Click this to create an additional desktop. To have an app open in a specific desktop, right-click its Dock icon and choose Options > Assign To This Desktop.



Full-screen apps

Apps that you've got running in full-screen are classed as a space of their own and so appear in the upper area; their windows won't appear in the lower part. As with any space, you can click through to a full-screen app directly, or access them using the aforementioned swipe gestures on your Magic Mouse or trackpad. Remember, pressing **⌘ + ⌘ + F** switches an app in and out of full-screen mode.

Your running apps

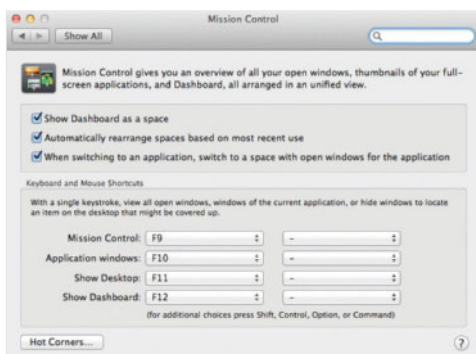
Each app you've got running on the current desktop gets its windows grouped together in Mission Control. So if you've got several Pages documents open, the one you viewed most recently appears at the front, with the others behind. But you can click any of the windows in the stack to make them appear on your screen.

Copy and paste

You can use Mission Control as a quick way to copy and paste text and images between running apps. Say you find a picture on a web page that you want to use in a Pages document: click and drag the image. Then, while holding down your mouse button or trackpad, press the Mission Control Key to bring up your open windows. Move the mouse pointer over the one you want to paste the image into, then press the Mission Control key again to bring up that window. Now, release the mouse button or trackpad to paste the picture in.

Mission Control options

In Mission Control's *System Preferences* pane (go to **⌘ + S** > System Preferences), you get a number of choices for how Mission Control works. For example, do you want *Dashboard* to appear as a space, or as a simple overlay, like it did in Snow Leopard and older versions of OS X? You can also alter the keyboard and mouse shortcuts to Mission Control, and set up *Hot Corners* (moving your pointer to a corner of your screen to make something happen).



Use Preview to its fullest

Learn about the exciting new things Preview can do in OS X Lion

>> KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
15 minutes

WHAT YOU'LL NEED
OS X Lion

Preview is the powerful little app that loads up when you open most images or PDF documents. It's fast, and its simple looks hide a lot of power underneath. We're going to show you some of the new features that have been added to it in OS X Lion, which will help you work faster and more efficiently.

The app sits in your **Applications** folder, or can be got at via Launchpad or a Spotlight search. Most often, though, it'll simply open up when you double-click an image or PDF. And remember you can always right-click a document's icon and choose **Open With > Preview**, to ensure it opens in *Preview* and not another app.

One of the most valuable new features in *Preview* under Lion is its ability to open files created using *iWork* (that's *Pages*, *Keynote* and *Numbers*), even if you don't have any of those apps installed. You won't be

able to make any changes to the document, but you can view and print them. Better still, *Preview* can open some *Microsoft Word*, *Excel* and *PowerPoint* files. With this added capability, the days of asking your friends or colleagues to convert files for you should be a thing of the past.

Preview makes use of OS X Lion's brilliant Auto Save and Versions features. Working in tandem, they ensure that once you've initially saved a document, you never lose anything, since your changes are constantly being recorded in the background. What's more, if you

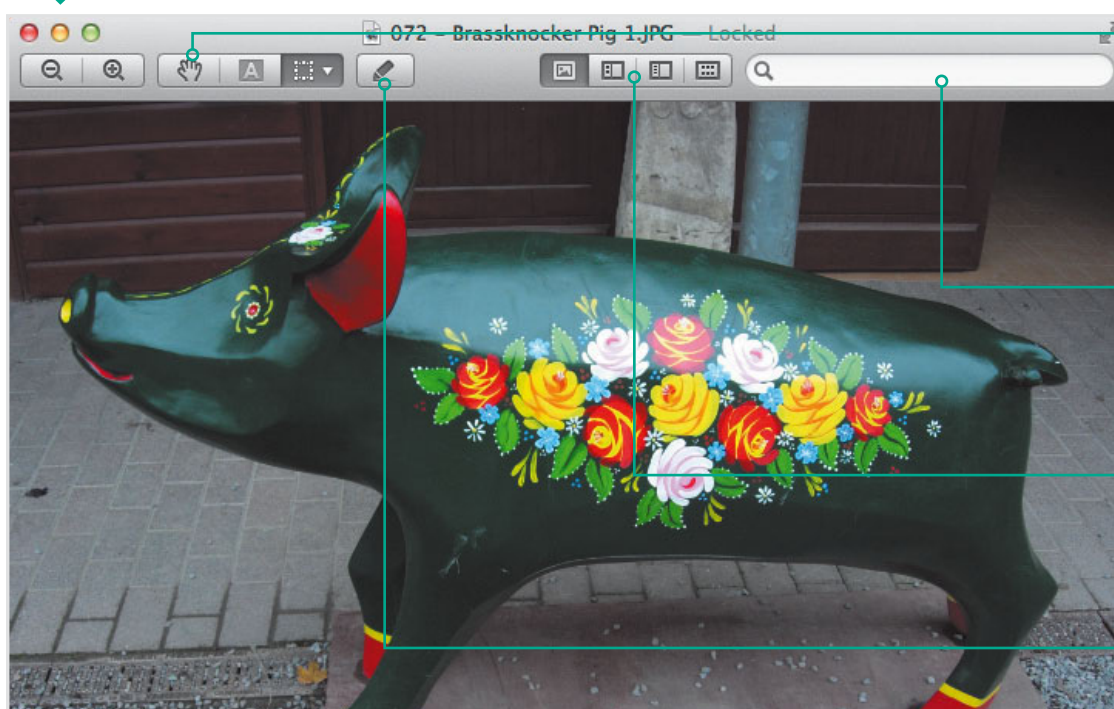
"Like most OS X Lion apps, Preview will work in full-screen, enabling you to do away with clutter"

make a mistake, you can step back to a previously saved Version. To do this, click **File > Revert to Saved...** to bring up a *Time Machine*-like view of all the saved Versions of your file. Browse through the stack on the right using the timeline on the far right. When you've found the one you want, click **Restore** to bring it back to the present!

Like most OS X apps, *Preview* will work in full-screen, enabling you to do away with clutter and focus on what you're reading or editing. Click the two arrows in the top-right corner of the window to enter full-screen mode, or press **⌘+⌘+F**. When you're in full-screen mode, remember you can move your mouse to the top of the screen to make the menu bar reappear. The two-arrow button to leave full-screen mode is at the right-hand end.

Laurence Cable

>> QUICK LOOK / Find your way around Preview



Tools

Use the hand to pan around, the A to add or edit text, and the box to select a segment.

Search bar

To find a word or phrase in the document, type it in here.

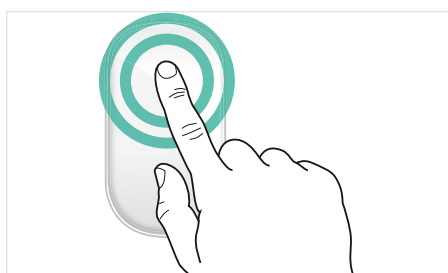
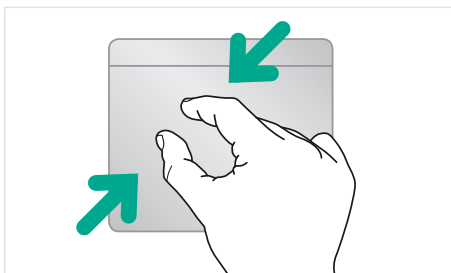
View

These four buttons determine how you view your document.

Annotate

Click the pen to make notes, draw shapes on or sign your document.

» HOW TO / Zoom around your documents



✓ Content Only	⌘1
Thumbnails	⌘2
Table of Contents	⌘3
Contact Sheet	⌘4
Continuous Scroll	
Single Page	
Two Pages	

01 Pinch and unpinch

To zoom *Preview* documents, use the pinch and unpinch gestures on a Mac's built-in trackpad or Magic Trackpad. Spread two fingers apart to zoom in, pinch them together again to zoom out. Two-finger scrolling works too.

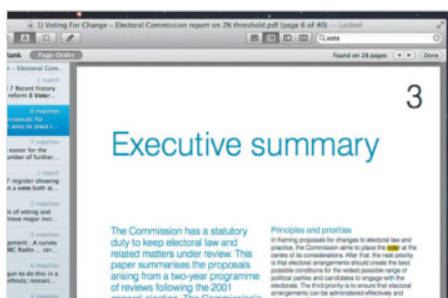
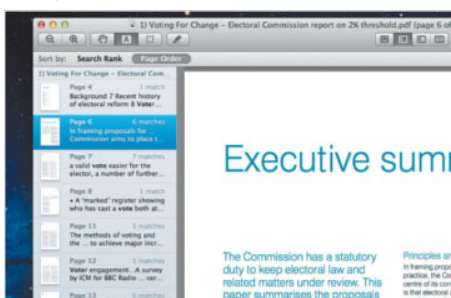
02 Smart zooming

If you're looking at a document with multiple columns of text and images, move your mouse pointer over one of them and double-tap two fingers on your trackpad (or one finger on a Magic Mouse). *Preview* will fit it to the screen.

03 Use keyboard shortcuts

Press **⌘+⌘** to zoom in, or **⌘+⌘** to zoom back out of a document. Other useful shortcuts are: **⌘+9** to zoom the document in or out so that it fills your screen; and **⌘+0** zooms the file to actual size (100%). ●

» HOW TO / Search your files

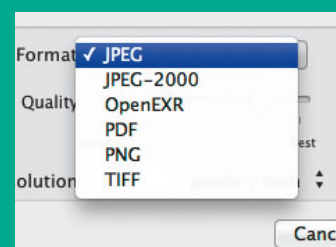


01 Easier to find

Preview's search feature has been improved in Lion. Click the search bar in the top-right and type in the words you're looking for. The results appear on the left-hand side, but now include a longer snippet of the text surrounding the word you searched for.

02 More details

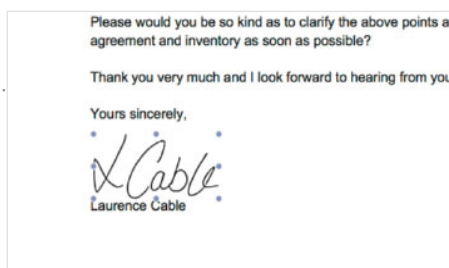
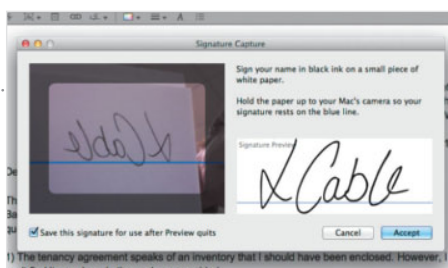
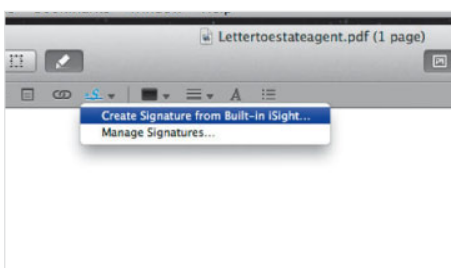
You also get to see which page the result is on and how many times it appears on that particular page. Click on one of the pages to jump to it, and you'll see all examples of the word you searched for highlighted in yellow on the right-hand side. ●



» QUICK TIP

There's no **Save As...** option in *Preview*. To save a document or image in a different format, choose **File > Export** and make your choice of how you'd like to save it from the **Format** drop-down. Give it a name, choose a location and click **Save**.

» HOW TO / Insert your written signature in a document



01 Perfect your scrawl

Sign a piece of white paper in black ink. Now open a document. Click the **Annotate** button in the top bar, then the **Signature** button below it. A menu will drop down: choose **Create Signature from Built-in iSight...**

02 Take a picture

Hold up your signed piece of paper to the camera and line it up with the blue line on the display. Once detected, it'll appear in the box. When you're satisfied, click **Accept** and you'll be returned to your document.

03 Sign on the dotted line

Your mouse pointer will become a + shape. Click where you'd like the signature to appear and drag it to size. *Preview* will save your signature for future use, so you've no need to repeat the steps next time. ●

Adjust displays and sound

Work with multiple-monitor setups and define your audio sources

>> KEY INFO



DIFFICULTY
Beginner



TIME NEEDED
15 minutes

WHAT YOU'LL NEED

Mac OS X 10.6+, multiple monitors (optional), multiple audio input/output sources (also optional)

Unless your reason for owning a Mac is to occasionally lovingly stroke it when the mood strikes, chances are you consider the most critical aspects of Mac ownership to be what you see on the screen and the sounds it emits. Settings for video and audio output have sensible defaults, but both can be adjusted by using *System Preferences*.

Open *System Preferences* and you'll see *Displays* and *Sound* both listed in the *Hardware* section. These are used to access settings that affect your monitor or monitors and your Mac's audio output. (Note to OS X Lion users: we are assuming in this tutorial that you haven't disabled access to these panes by

using the *Customize* functionality. If you have, you can access them by going to the *View* menu, or make them visible again by going to *View > Customize* and checking the relevant items.)

When it comes to dealing with displays, settings are generally straightforward; although multiple displays provide a little extra complexity, since you can rearrange them. However, audio input and

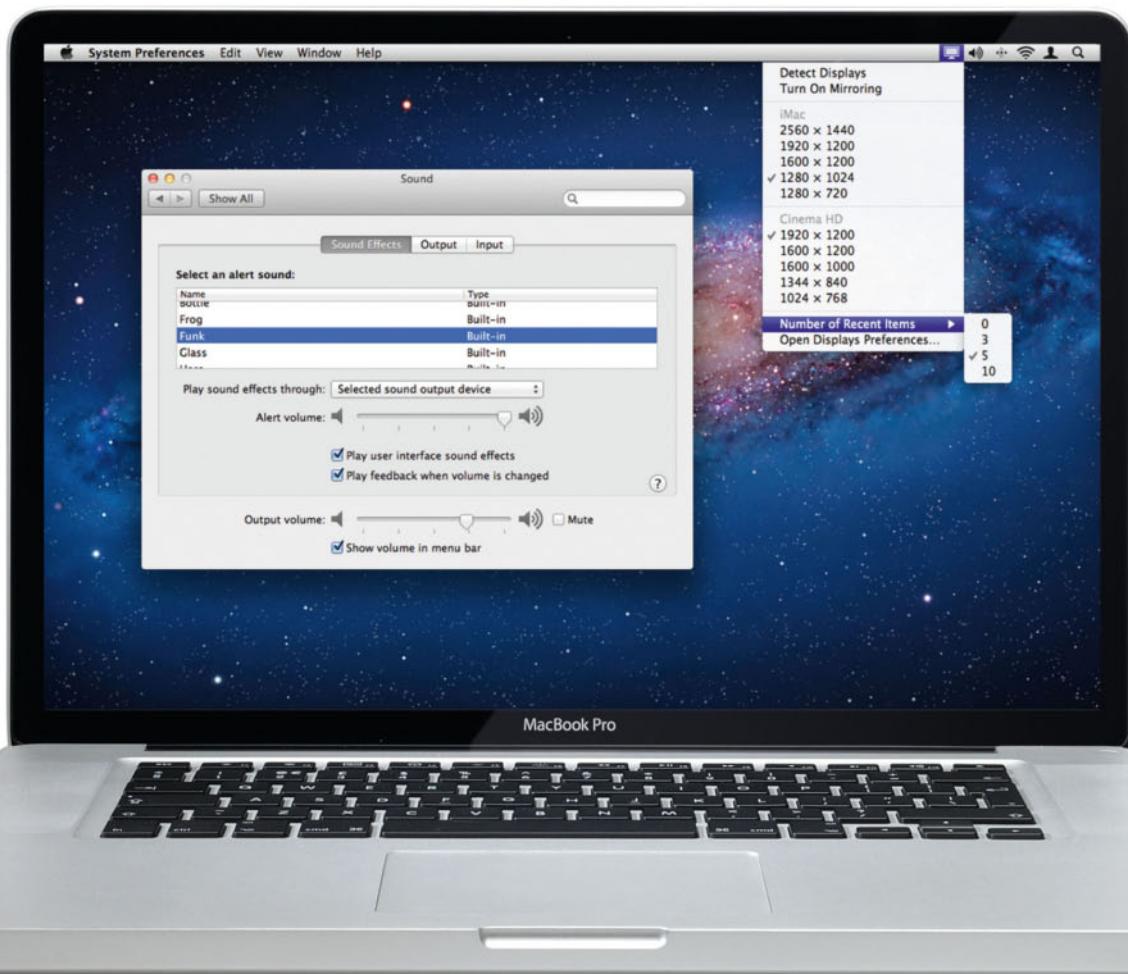
output can cause trouble – it's common for us to be told how someone 'cannot hear' their friends in a messaging app, or get audio from a USB microphone into *GarageBand*. This walkthrough shows how to deal with input and output settings when you've multiple possible audio sources; and for displays, we show you how to change monitor resolution and arrange multiple monitors.

The pictures show OS X Lion, but the *Displays* and *Sound System Preferences* are almost identical under Snow Leopard, bar one minor change in *Sound Effects*: there's no *Play Front Row* sound effects checkbox in OS X Lion.

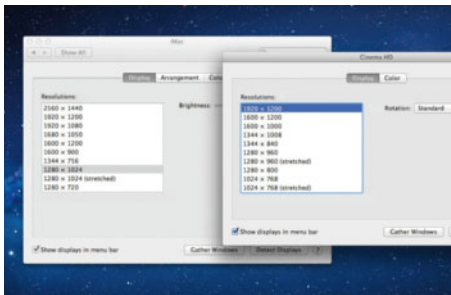
Craig Grannell

"Settings for video and audio output have sensible defaults but both can be edited in System Preferences"

Adjust audio and video settings to customise your Mac's output.

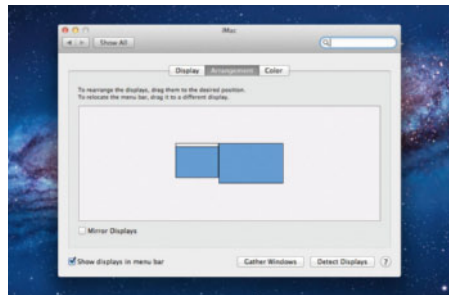


» HOW TO / Fine-tune Displays and Sound settings



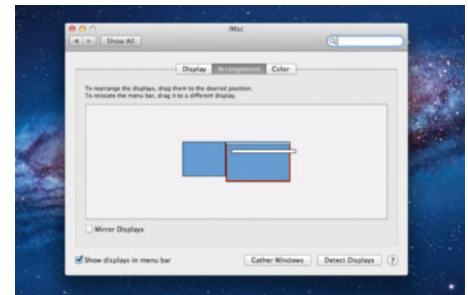
01 Change resolutions

Most displays have a default resolution. It's best not to change this, but if you need to amend the setting, open **Displays**, click **Display** and choose one. If you've multiple displays, each gets a window – click **Gather Windows** to move them to your primary display.



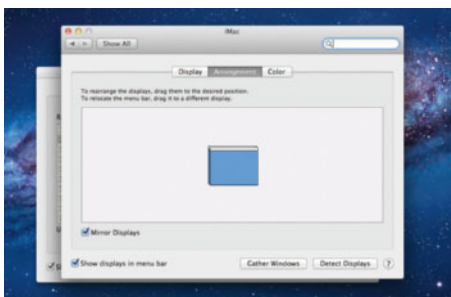
02 Display arrangement

If you've multiple displays, click **Arrangement**. Each monitor will be shown as a blue rectangular 'screen'. Drag and drop the screens to change their positions. There's nothing to stop you putting one on top of the other rather than side by side.



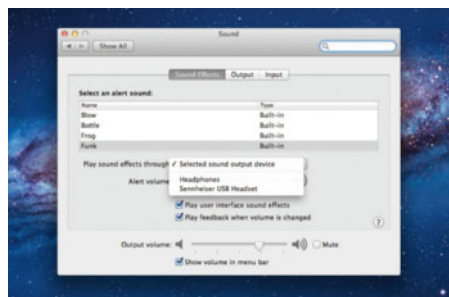
03 Set a primary display

In the **Arrangement** tab, one of the screens will have a white strip across its top. This denotes the OS X menu bar and defines the primary display. To switch it to another one, click-hold the strip and drag it to the other screen. The change takes effect immediately.



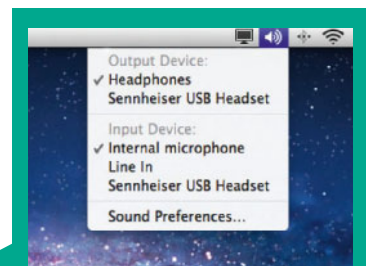
04 Mirror your displays

An alternative to a standard multiple-monitor setup is to mirror your displays. Do so by clicking the **Mirror Displays** button. Your displays will all show the same content but will adjust to the lowest common denominator screen resolution before doing so.



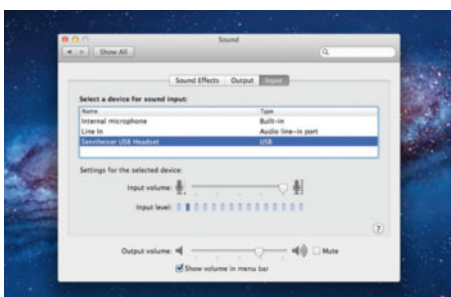
05 Set sound effects

Open **Sound** and click **Sound Effects**. To change the alert sound, select an alternative to **Funk**. Use the **Play sound effects through** menu to define which connected audio output device the effects should play through. Use the slider to amend the volume of alerts to suit.



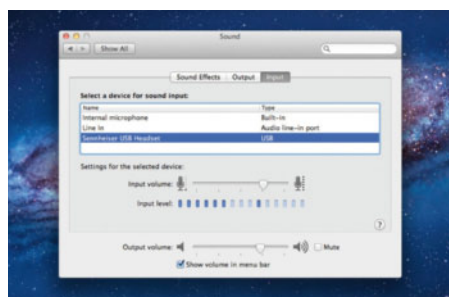
» QUICK TIP

Both **Displays** and **Sound** have options for displaying menu bar extras. The former is shown as a screen; click it for resolutions and mirroring options. Sound is shown as a volume slider; hold $\square$ and click the menu extra for more options.



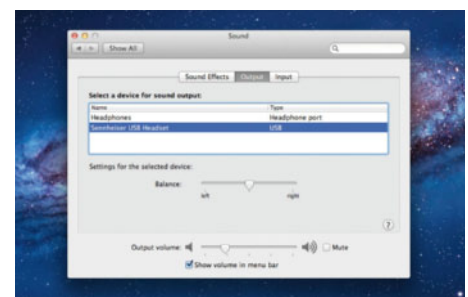
06 Define input sources

By default, Apple notebooks and iMacs will have an internal microphone as the initial input source. You can change this in the **Input** tab. Select your chosen input source from the list. Note that some apps (such as *Skype*) override this with their own settings.



07 Test input levels

With input devices, it's a good idea to check levels to ensure you don't end up with distorted audio. If using a microphone, select it and speak into it. You'll see the **Input level** gauge rise and fall. Adjust the **Input volume** slider if it always sits at the maximum level.



08 Define output sources

If you've connected your Mac to an output source but can't hear any sound, click **Output** and ensure your output source is selected. Many speaker sets run from the headphones port, but some are USB-based; test each setting if you're unsure which your kit is. ●

Get great desktop images

Use the free Wallpapers HD Lite to brighten up your Mac's desktop

>>KEY INFO

DIFFICULTY
Beginner

TIME NEEDED
5 minutes

WHAT YOU'LL NEED
Wallpapers HD Lite, OS X 10.6+

Your Mac has a bunch of quality desktop images built in, which you can access through the Desktop section of the Desktop & Screen Saver pane in *System Preferences*. It's also possible to set an image in *Finder* as your desktop background. However, if you're bored with what you have and don't fancy searching for more, use *Wallpapers HD Lite* (€FREE, Mac App Store) to do the work for you. It provides access to loads of high-quality backgrounds, for free. If you want to rid yourself of the daily download limitation, the paid-for *Wallpapers HD* costs £2.99.

Craig Grannell

Search for desktops

Click the magnifying glass at the top-left of the window to access the search field. As standard, type a term and tap the  key to see results, which are displayed in the viewing pane at the right. For more results, use a very generic term, since *Wallpapers HD Lite*'s catalogue isn't endless.

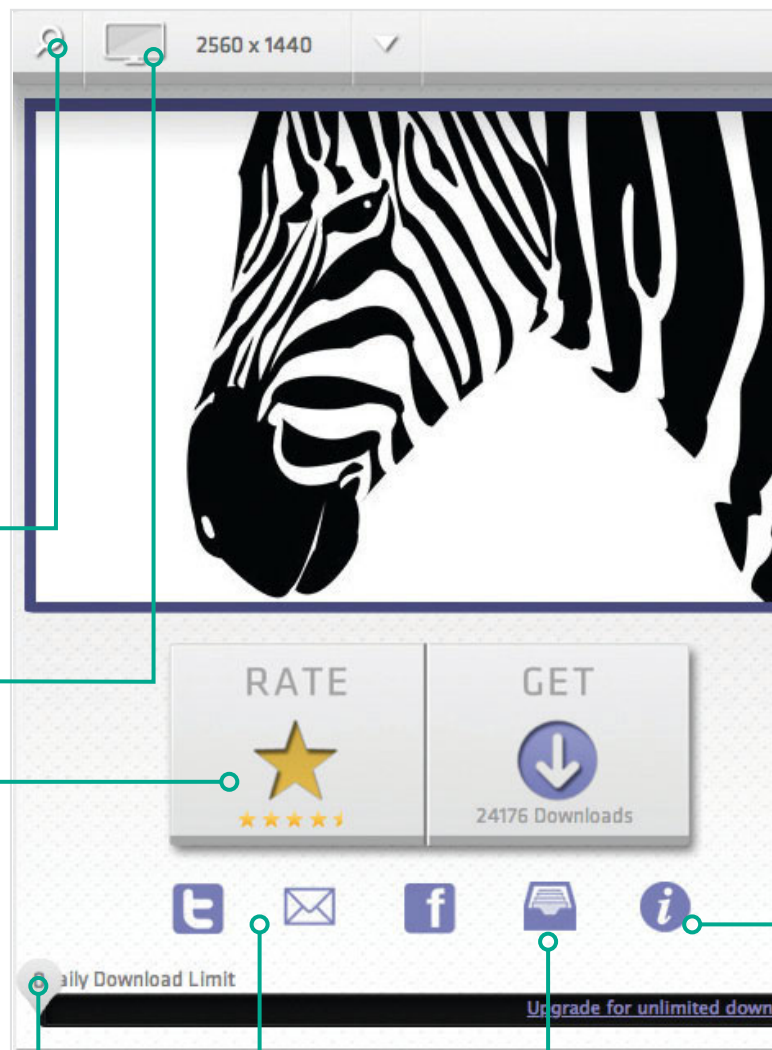
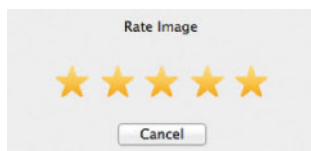


Get the right resolution

The display icon towards the top-left of the window shows the target resolution for your downloaded images. If you're unsure what display resolution you have, go to **Apple > System Preferences** and see what's selected under **Displays**. For best results, select the same resolution from the menu in *Wallpapers HD Lite* (by clicking the downward-facing arrow and choosing an option). Note that larger images will take a while longer to download.

Get and rate an image

On selecting an image from the right-hand pane, a larger preview of it will be displayed to the left. If you'd like to download the image, click the huge **Get** button. The image will be downloaded and will automatically replace your existing desktop. If you'd like to rate the image, click the **Rate** button. Mouse over and click the star relating to the score you'd like to award, or just click **Cancel** if you change your mind.



Share info about your images

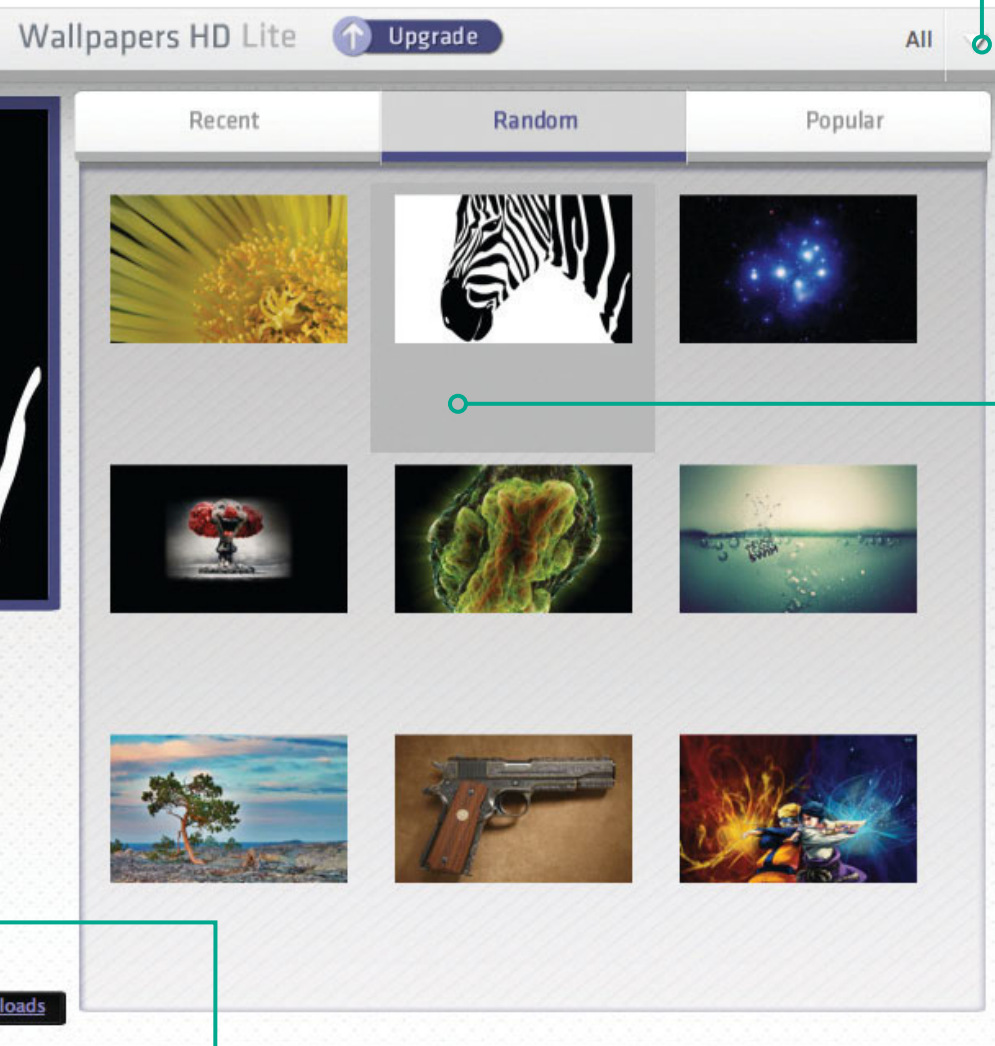
Under the **Rate** and **Get** buttons are three options for sharing your images. Click the Twitter icon and you'll be provided with the option to connect the app to Twitter, after which point you can tweet links. The envelope, when clicked, launches *Mail*, pre-populating a message with information about the image and the app you're using. The Facebook option works like Twitter.

Know your limits

The free 'lite' version of *Wallpapers HD* allows five downloads per day. The **Daily Download Limit** slider lets you know how many images you've downloaded. Once it reaches the far-right, either upgrade or wait until the next day to download more pictures.

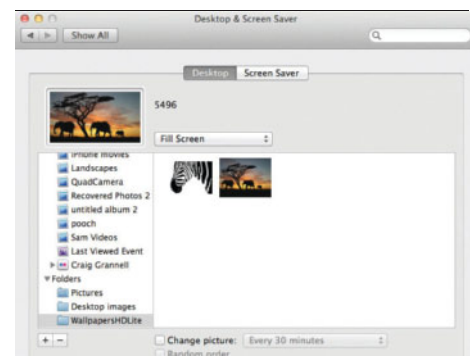
Choose a category

By default, *Wallpapers HD Lite* doesn't filter its search results. If you'd like to make a fairly broad search on a type of subject matter, click the downward-facing arrow at the top-right of the window and choose an option. To later revert to the default setup, simply choose **All** from the same menu.



Explore available images

The main pane on the right shows images related to any searches you've made or filters you've applied. Images load in a 'lazy' fashion, so it usually pays to scroll so that you can see more. The three large buttons at the top provide options for searching images: **Recent** and **Random** are pretty self-explanatory, while **Popular** shows wallpapers highly rated by users.

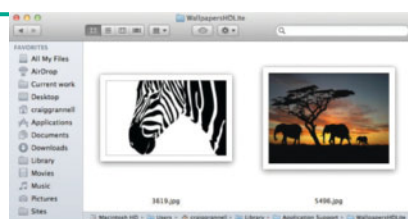


Link to System Preferences

Launch *System Preferences* from the **Apple** menu and select **Desktop & Screen Saver**. Click the **Desktop** tab and click **[+]** under the left-hand pane. Locate **~/Library/Application Support/WallpapersHDLite** and click **Choose**. *Wallpapers HD Lite* images now show in the **Desktop** pane. (By default, **~/Library** is hidden in Lion, but you can **[⌘]-select** the **Go** menu in *Finder* to select **Library**; open *Application Support* and drag the *WallpapersHDLite* folder onto the dialog box.)

Get item info

Each of the wallpapers within the application has some creator information associated with it. Select any item, downloaded or not, and click the round info icon under **Get**. A sheet will display the source link online for the image and also its ID.



Find your downloads

The application stores your downloads in **~/Library/Application Support/WallpapersHDLite**. If you want to get there quickly, click the fourth item across, underneath the **Rate** and **Get** buttons. The folder will open in *Finder*, enabling you to access the downloads (which are JPEG files). You can then, if you wish, drag them elsewhere (or **[⌘]-drag** to copy rather than move) on your Mac or add them to *iPhoto*.

Use Finder to set a desktop

Although you can use *System Preferences* to set your desktop image to a wallpaper downloaded from *Wallpapers HD Lite*, there is another option. Navigate to the **WallpapersHDLite** folder (see **Find your downloads**), **[⌘]-click** one of the images within and select **Set Desktop Picture**.



Steve Jobs: charismatic CEO and co-founder of the world's greatest computer company.
Image © Corbis

Steve Jobs

Words by: Rob Mead-Green

The man behind the myth

On 12 June 2005, Steve Jobs stood up on the podium on the sun-streaked lawn outside Stanford University in Silicon Valley, California and gave the speech of his life: he talked of his time as a young entrepreneur, how he had slept on friends' floors after dropping out of Reed College and how he had walked seven miles across town to get one good meal a week at the Hare Krishna ashram. Eventually Steve turned to the subject that had been weighing on his mind since his diagnosis with pancreatic neuroendocrine cancer the year before:

"Remembering I'll be dead soon is the most important tool I've ever encountered to help me make the big choices in life. Because almost everything – all external expectations, all pride, all fear of embarrassment or failure – these things just fall away in the face of death, leaving only what is truly important. Remembering that you are going to die is the best way I know to avoid the trap of thinking you have something to lose. You are already naked. There is no reason not to follow your heart."

What's amazing about Steve's life is that, for the most part, that's exactly what he did: followed his heart. He had a vision, which he pursued single-mindedly, and he cajoled, bullied and persuaded his friends, employees and millions of loyal fans to join him for the ride. It wasn't always pretty and Steve had his fair share of failures, but we'll always remember him for what he truly achieved...

He made the difficult simple

Steve learned early on that the best things in life are the simplest and sought to apply them to almost everything Apple did. The original Macintosh was all about making computers easy

to understand and use, while the iPhone was all about making mobiles simple and easy to use. And the iPad's so simple, even a child who's never used a gadget before can understand the way it works. By striving for simplicity, Steve put complicated technology into all our hands. He took it from the scientists and democratised it.

He believed in the best

Steve's Zen-like striving for minimalism was equal to his belief in giving people positive experiences, creating the best and in being the best. Throughout every stage of his career he rejected things he simply didn't believe were good enough, instead spending huge amounts of time and money on getting things right. His persistence has paid off handsomely: very few companies or products inspire the kind of love, devotion and loyalty that fans show to Apple and its products. Why? Because it's easy to love something that's been made with care from quality materials that work together in an elegant and aesthetically pleasing way. Choosing a Mac over a PC is like deciding between a Merc and a Morris Minor: sure, they are both great cars, but which would one you prefer to sit in every day? As John Lasseter said of Steve's contribution to Pixar: "The one thing he always said was to simply 'make it great.'"

Although his name is listed on over 300 patents, Steve wasn't really an inventor, an engineer or a computer nerd, but he was

"We've all seen the keynotes, the YouTube videos, the charismatic public face. But what was Steve really like?"

brilliant at realising the potential in people, situations and things. He recognised what a game-changer Xerox's mouse and graphical user interface were before Xerox themselves; he saw how the music business was changing – and how Apple could take advantage of it – before the record companies knew what had hit them; and he saw the potential in Pixar long before its first computer-animated movie turned into box office gold. The iPod, iPad and iPhone managed to entirely reshape the product sectors that they were launched into – creating a huge wave of disruption that saw off many rivals and awoke others from their stupor. For stuff like that alone, Steve will be missed.

He had true vision

Visions are everywhere in the corporate world. Every CEO has one, along with a company mission statement that employees usually pay lip-service to. But in Steve's case, that 'vision' wasn't just a mealy-mouthed set of words dreamed up by the marketing department – he genuinely believed it. He led a simple life in a modest home that was very sparsely furnished. He expected the best of others and of himself and he was genuinely excited by the idea – and reality – of creating amazing new things. Apple's corporate culture is intricately interwoven with Jobs' beliefs, which is why one of the last things he did to secure his legacy was to set up an Apple University. That way, even after death, Apple would carry on believing in the things that made Steve and the company he created such an enormous success.

We've all seen the keynotes, the YouTube videos, the charismatic, public face of Steve Jobs. But what was he really like? Notoriously private, Steve drew a clear distinction between his day job and his personal life, shielding his family – wife Laurene Powell Jobs, his son >>

and three daughters – from public view, staying tight-lipped about his illness and even refusing to comment on his philanthropy – or the apparent lack of it.

Somewhat belatedly and surprisingly, Steve appears to have opened up to biographer Walter Isaacson, giving over 50 one-on-one interviews in the last couple of years. During their last meeting together Isaacson asked Steve why he had been so open. “I wanted my kids to know me,” Steve replied. “I wasn’t always there for them and I wanted them to know why and to understand what I did.”

All will hopefully be revealed in Isaacson’s biography – *Steve Jobs* – which went on sale Friday 24 October. But much of what else we know about this very private man is subject to anecdote and conjecture. We know he used to enjoy going on long walks and rollerblading with his family; that he often used to be seen in cafés and shopping malls in Palo Alto, the town in California where he grew up. We also know he lived in a modest, though unusual, home, had few possessions and could even be seen washing his car on his driveway or doing the washing up. He obviously didn’t even care much about his appearance – often seen in tatty Levi 501 jeans, black turtlenecks and New Balance 991 trainers. Steve told Isaacson, “... I asked Issey [Miyake] to make me some of his black turtlenecks that I liked, and he made me a hundred of them... That’s what I wear. I have enough to last for the rest of my life.”

He led a very private life

Little of this smacks of being typical behaviour for a tech tycoon whose personal \$7 billion fortune puts him in 39th place on *Forbes’* Richest People in America list (www.forbes.com/forbes-400/list). His only real indulgence appears to have exclusive use of Apple’s Gulfstream V plane, which he used to jet around the world in so he could attend high-level meetings and give Apple keynotes.

The other few things we know about his private life are snapshots really: we know he dated folk singer Joan Baez – apparently due to his fascination with her one-time boyfriend, Bob Dylan. He also had a relationship with *Annie Hall* actress Diane Keaton. And we know he drove a Mercedes SL55 AMG without any licence plates and often could be seen parking it in the disabled bay close to the entrance of Apple’s HQ at 1 Infinite Loop.

We know that Steve wasn’t a huge fan of the 14-bedroom Spanish Colonial mansion he bought in Woodside, California in 1994. For most of the time Steve lived there it was practically empty. In 2010, former Apple CEO John Sculley told *Businessweek*: “I remember going into Steve’s house, and he had almost no furniture in it. He just had a picture of Einstein, whom he



Steve Jobs outside the garage where he and Steve 'Woz' Wozniak started Apple in 1976.

admired greatly, and he had a Tiffany lamp and a chair and a bed. He just didn’t believe in having lots of things around, but he was incredibly careful in what he selected.”

Over the years, the Jackling House fell into a state of disrepair and in 2004 Steve was given permission to demolish it and replace it with a much smaller four-bedroom house – but then fell foul of local residents who wanted the original building. Steve became embroiled in a very public and bitter spat over the property. He eventually won the battle – and the house was demolished in February this year.

One of the most surprising things about Steve was the effect that Hindu and Buddhist teachings and the hippie movement had on him.

“One of the most surprising things about Steve was the effect Hindu and Buddhist teachings had on him”

After he dropped out at Reed College in 1973, he headed off to India with friend Daniel Kottke to visit Hindu guru Neem Karoli Baba at his ashram in Kainchi. ABC World News says of this time, “He returned home to California a Buddhist, complete with shaved head, traditional Indian clothing and a philosophy that may have shaped much of his corporate values.” Steve told *Businessweek* in 1998: “Simple can be harder than complex. You have to work hard to get your thinking clean to make it simple. But it’s worth it in the end because

once you get there, you can move mountains.” The evidence for this kind of thinking permeates Apple, from the look and feel of Mac OS X to products like the iMac, iPad and iPhone.

When Steve married Laurene Powell in 1996, it was a Buddhist ceremony that they both chose. Steve even thought at one point of even becoming a Buddhist monk, but his guru, Kobun Chino, advised him to start up Apple instead.

He had his inspirations

In the closing minutes of Steve Jobs’ 2005 Stanford Commencement speech, he told the students about the huge influence hippie manual *The Whole Earth Catalog* had on him:

“It was created by a fellow named Stewart Brand, not far from here in Menlo Park, and he brought it to life with his poetic touch. This was in the late 60s, before PCs and desktop publishing, so it was all made with typewriters, scissors and Polaroid cameras. It was sort of like Google in paperback form, 35 years before Google came along – it was idealistic, and overflowing with neat tools and great notions.

“Stewart and his team put out several issues of the *Whole Earth Catalog*, and then, when it had run its course, they put out a final issue. It was the mid-1970s, and I was your age. On the back cover of their final issue was a photograph of an early morning country road, the kind you might find yourself hitchhiking on if you were so adventurous. Beneath it were the words ‘Stay hungry. Stay foolish.’ It was their farewell message as they signed off. Stay hungry. Stay foolish. And I have always wished that for myself. And now, as you graduate to begin anew, I wish that for you. Stay hungry. Stay foolish.”

Steve, it was great knowing you. ●

His greatest hits



The original Mac

1984. The 128k Macintosh was the first consumer computer to combine a graphical user interface (GUI) with a mouse – both of which were invented by Xerox but immediately seized on by Jobs, who recognised their revolutionary potential. We take them for granted now, but 27 years on, it's still the way most of the world's computers work. The original Mac also gave a little software company from Seattle something to do: *Microsoft Office* applications *Word*, *Excel* and *PowerPoint* all appeared on the Macintosh first.



The iMac

Launched in 1998, the iMac took the original Macintosh and updated it for the 'i' (internet) generation. Here was a fun, colourful all-in-one computer that enabled you to go online in just three simple steps. It quickly went on to become the fastest-selling PC in computer history, helped kill the floppy disk and introduced consumers to USB. The iMac was also an important symbol to legions of long-suffering fans. It said: Steve's back, the Mac's back, Apple's back. The iMac also established Steve's now-legendary business acumen.



The iPod

Having invented then reinvented the computer, Apple turned its attention to music. By 2001, the whole music industry was in a state of flux. Sales were falling, illegal downloads were growing and music fans were experimenting with a new range of promising but poorly defined MP3 players. Into this territory strode the iPod, a simple music player with 5GB of storage and a brilliantly simple-to-use interface. It, *iTunes* and Steve Jobs' tenacity in dealing with beleaguered record companies helped make the industry what it is today.



NeXT, NeXTSTEP and Mac OS X

After Steve left Apple in 1985 he went off and founded NeXT, a high-end workstation maker that also did a nice line in computer software. One such product was the NeXTSTEP OS, a Unix-like operating system, which introduced a range of advanced features like pre-emptive multi-tasking and protected memory. In 1996, Apple – which has struggled to come up with a modern OS of its own – acquired NeXT, along with the NeXTSTEP OS and the company's founder Steve Jobs. NeXTSTEP OS went on to form the basis for Mac OS X.



The iPhone

"The first 30 years were just the beginning." As statements of intent go, that's quite a claim, but Apple managed to pull it off with spectacular success during Steve's Macworld keynote in 2007 when it revealed the original iPhone. Its impact was so great that even Microsoft's Windows Vista launch in Las Vegas was completely overshadowed. With the iPhone, Jobs again did what he had to the computer and the music industry before: he didn't just run off with the ball. He used it to create the rules of a brand new game.



The iPad

A big part of Steve Jobs' genius was his uncanny ability to take something complicated and then distil it down to its essence – and it's been the same story with the Apple iPad. Work originally began on it well before the iPhone arrived in 2007. But it's undoubtedly Microsoft's failed tablet PC platform that provided the spur: the iPad couldn't be further from the cumbersome, over-complicated touch tablets that Microsoft and its partners were able to come with. Steve arguably helped create a whole new computing paradigm – one where PCs no longer hold sway. >>

5 must-see moments

His greatest hits on YouTube



Stanford Commencement Address 2005

Inspiring, moving and full of passion, compassion and warmth. This is the speech Steve needed to make.



Macworld keynote, Jan '07

A masterclass in the art of the keynote and one of Steve's very best. The thrills just keep coming, culminating in the launch of the iPhone. Wow.



Apple Macintosh demo '84

A young, bowtie-wearing Steve shows off the original Mac for the first time – by getting it to talk to the crowd. Result: pandemonium.



"Computers are like bicycles for our minds"

A young Steve explains why machines make humans more efficient than they could ever be on their own.



"Here's to the crazy ones"

Apple's first 'Think Different' commercial originally featured a voice-over from Steve. It sums up the man in a nutshell and is very moving to watch.

More greatest hits



The iTunes Store

Launched in April 2003, Apple's iTunes Store is now one of the biggest entertainment retailers in the world. Its huge success can be largely laid at Steve's door. It was his extraordinary powers of persuasion that encouraged the 'Big Five' entertainment companies – BMG, EMI, Sony, Universal and Warner – to jump on board. Even the underlying structure of the iTunes Store owes something to Steve: it's based on WebObjects, a web application server and framework originally developed by Steve's other pioneering computer company, NeXT.



Pixar

Cars 2 may have stunk a little, but Pixar is one of the great success stories of Hollywood. It was Steve's tenacity and daring that helped make the company what it is today – whether he was pouring in millions of his own money, driving lucrative deals with Disney or urging Pixar's creatives to "make it great." Pixar's Chief Creative Officer, John Lasseter, said: "[Steve] saw the potential of what Pixar could be before the rest of us and beyond what anyone ever imagined." He also helped reshape Disney's board, stopping the rot at top of the company.



The Apple Store

Since launching its first store in 2001, Apple has become one of the most successful retailers of the 21st century with over 350 stores worldwide. Steve's influence permeates throughout, as Norman Foster of Foster & Partners explains: "For him no detail was small in its significance and he would be simultaneously questioning the headlines of our project together while he delved into its fine print... His participation was so intense and creative that our memory will be that of working with one of the truly great designers."



Himself

There are very few people in the world who have the charisma, character and 'rock star' appeal of Steven P Jobs, especially in the corporate world where anonymity is king. But Jobs' showman persona is just as much a creation as anything else. His early speeches and TV appearances were marked by a mix of nervous energy and outright fear which he worked hard to overcome. Even in recent years, his crowd-pleasing keynotes were the result of many hours of hard work – rehearsing and rehearsing until every moment was right.

David Paul Morris/Getty Images

Quotes and anecdotes

"Ultimately it comes down to taste. It comes down to trying to expose yourself to the best things that humans have done and then trying to bring those things into what you're doing."

Interview with Steve Jobs, 1994

"It's not about pop culture, and it's not about fooling people, and it's not about convincing people that they want something they don't. We figure out what we want. And I think we're pretty good at having the right discipline to think through whether a lot of other people are going to want it, too."

Fortune, 2008

"You know, I've got a plan that could rescue Apple. I can't say any more than that it's the perfect product and the perfect strategy for Apple. But nobody there will listen to me."

Fortune, September 1995

"Your time is limited, so don't waste it living someone else's life. Don't be trapped by dogma – which is living with the results of other people's thinking. Don't let the noise of other people's opinions drown out your own inner voice. And most important, have the courage to follow your heart and intuition. They somehow already know what you truly want to become. Everything else is secondary."

Steve's Stanford commencement speech, 2005

"Pixar is the most technically advanced creative company; Apple is the most creatively advanced technical company."

Fortune, February 2005

"Bill Gates would be a broader guy if he had dropped acid once or gone off to an ashram when he was younger."

New York Times, 1997



Sometimes when you innovate, you make certain mistakes. It is best to admit them quickly, and get on with improving your other innovations."

Wall Street Journal, summer 1993

"When I invited Jobs to take some time away from NeXT to speak to a group of students, he sat in the lotus position in front of my fireplace and wowed us for three hours as if leading a séance. But then I asked him if we would sign my Apple Extended Keyboard. He burst out: 'This keyboard represents everything about Apple I hate. It's a battleship. Why does it have all these keys? Do you use the F1 key? No.' And with his car keys he prised it right off. 'How about this F2 key?' Off they all went. 'I'm changing the world, one keyboard at a time.'"

Former NeXT executive Steve Jurvetson, BusinessWeek

"The products SUCK! There's no sex in them anymore!"

Steve tells it like it is on his first meeting as interim CEO in July 1997

"I was worth over \$1 million when I was 23, and over \$10 million when I was 24, and over \$100 million when I was 25, and

it wasn't that important because I never did it for the money."

PBS documentary Triumph Of The Nerds: The Rise Of Accidental Empires (1996)

"I want it to be as beautiful as possible, even if it's inside the box. A great carpenter isn't going to use lousy wood for the back of a cabinet, even though nobody's going to see it."

Steve Jobs talking about the Mac's motherboard, June 1981

"Death is the destination we all share, no-one has ever escaped it, and that is as it should be, because death is likely the greatest invention of life."

Steve's Stanford commencement speech, 2005

"When the engineers working on the very first iPod had completed the prototype, they presented their work to Steve Jobs for his approval. Jobs played with the device, scrutinised it, weighed it in his hands, and promptly rejected it. It was too big. The engineers explained that they had to reinvent inventing to create the iPod, and that it was simply impossible to make it any smaller. Jobs was

quiet for a moment. Finally he stood, walked over to an aquarium, and dropped the iPod in the tank. After it touched bottom, bubbles floated to the top. 'Those are air bubbles,' he snapped. 'That means there's space in there. Make it smaller.'"

D B Grady, The Atlantic

"... We headed over, and all of a sudden we were alongside Jobs' house. It's a really unusual and interesting house, but very understated and relatively small. You can just freely walk on the sidewalk right next to it. Well, we were walking along, and I heard dishes clattering, coming from his house, and I look over and there he was in his kitchen window, black turtleneck and all, washing dishes."

Steve Krupf, Gawker.com

"A few weeks ago, I visited Jobs for the last time in his Palo Alto home... He had moved to a downstairs bedroom because he was too weak to go up and down stairs. He was curled up in some pain, but his mind was still sharp and his humour vibrant. We talked about his childhood, and he gave me some pictures of his father and family to use in my biography. As a writer, I was used to being detached, but I was hit by a wave of sadness as I tried to say goodbye. In order to mask my emotion, I asked the one question that was still puzzling me: why had he been so eager, during close to 50 interviews and conversations over the course of two years, to open up so much for a book when he was usually so private? 'I wanted my kids to know me,' he said. 'I wasn't always there for them, and I wanted them to know why and to understand what I did.'"

Walter Isaacson, whose official biography, Steve Jobs, is out now.

Steve Jobs

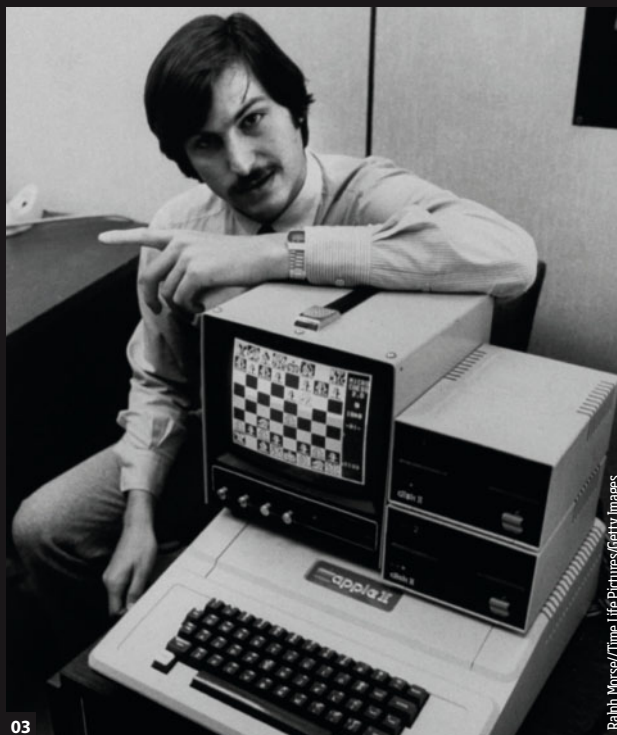
A life in pictures



Courtesy of Apple



© Corbis



Ralph Morse/Time Life Pictures/Getty Images



Bernard Gotfried/Getty Images



Courtesy of Apple



David Paul Morris/Getty Images

[01] Steve Jobs with Apple co-founder Steve 'Woz' Wozniak, 1975.

[02] Steve shows Bill Gates how it should be done, posing in his office in 1981.

[03] A moustachioed Steve has his picture taken with the Apple II in 1979. It was Apple's first big success.

[04] 1984: Steve poses with the original 128k Macintosh.

[05] Apple was in deep, deep trouble when Steve returned in 1997. The 1998 iMac was the beginning of its fight back.

[06] Steve slips the ultra-slim iPod nano into the pocket of his favourite Levi 501 jeans during his 2006 keynote.



07

Justin Sullivan/Getty Images



08

Justin Sullivan/Getty Images



09

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10

Tim Moser/Getty Images



11

© Corbis

[07] Steve takes a seat for the launch of the original iPad in January 2010.

[08] Boom! Steve gets excited about one of the brand new features of iLife 4 during his January 2004 keynote.

[09] Steve helped Pixar become one of the most successful computer animation companies in the world. Pixar helped him secure a seat on Disney's

board, eventually becoming its single biggest individual shareholder.

[10] Steve celebrates the launch of the special edition U2 iPod with Jimmy Iovine, Bono and The Edge, October 2004.

[11] A touching moment: Steve with his wife Laurene Powell Jobs at his last public keynote in June 2011.

Q&A

● HINTS & TIPS ● TROUBLESHOOTING ● EXPERT ADVICE ● ESSENTIAL INFO

>> MEET YOUR Q&A EXPERT

Whatever your Mac-related problem, from misbehaving MacBooks to withering wireless, Luis Villazon can help.



>> ASK LUIS A QUESTION

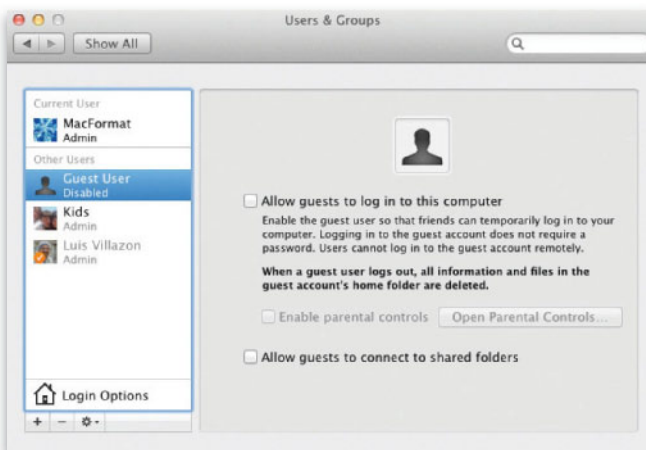


Got a problem with your Mac? Then why not send your queries to Luis at macformat.help@futurenet.com and see if he can help.

"Where are my missing attachments?"

Q In the November 2009 edition of *MacFormat*, it explained how to email a photo from *iPhoto*. The article describes how the recipients will see the photos. It says they will receive both the file, to save separately, and also, the photo will appear in the body of the copy. I have tried to get this result but it never works. I've tried sending to Yahoo Mail and to Hotmail and neither show the image file as an attachment, only the open photo in the body of the text. My Windows friends and family would like to receive both the photo in the text and the file of the photo. I have a MacBook Pro 15-inch 2011, with *iLife '11*.
John Wanvig

The Guest account can't be deleted. The best you can do is disable it.



Deleted partitions are easy to retrieve as long as you don't write to the disk inbetween.

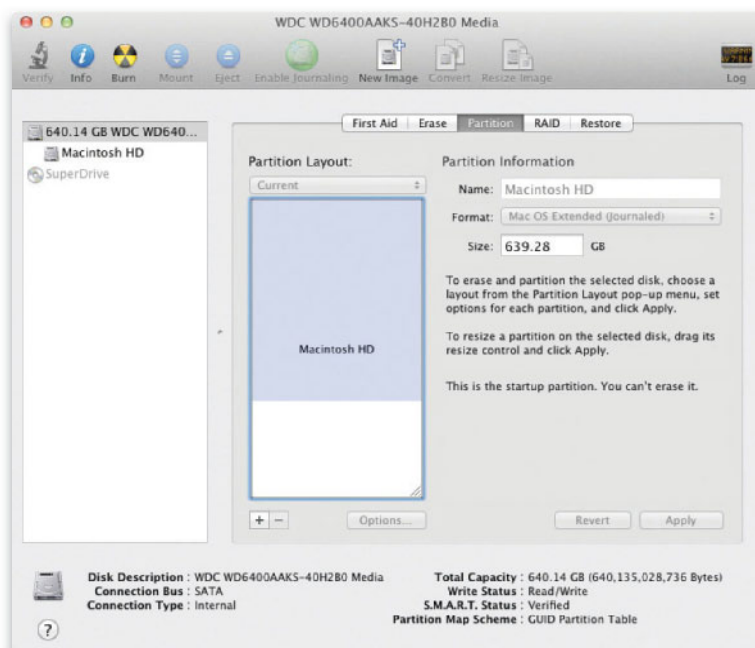
problem. Back in 2009, Hotmail and Yahoo! listed attachments separately, next to the message header. You could click the button next to them and save the files to your computer but they were also displayed inline in the message. This was probably a relic from even longer ago, when it wasn't straightforward to embed an image in a photo and many people couldn't receive them at all. Hotmail displayed the image inline if your computer could handle it, but the attachment was listed separately if you couldn't.

Nowadays of course, everyone can view images in their email and we all have much bigger monitors so displaying them all inline isn't a problem. Webmail services like Hotmail and Yahoo! are constantly evolving their interface and at some point in the last two years, they have evidently concluded that separately listing attachments that can perfectly well be displayed inline is a bit redundant.

Anyway, the point is that nothing you do or don't do on your Mac will change this. If your recipients want to save their image attachments, all they need to do is right-click the image and choose **Save As...**

"I broke my partitions by mistake. Help!"

Q I have a MacBook Pro and regularly back up to my external hard drive, a 500GB LaCie d2 HD QUADRA. I formatted it with two partitions but then decided I no longer needed this. I removed all the files from the second partition. Then using *Disk Utility*, I reduced the number of partitions to one, assuming that it would have no effect on the information I stored in the first partition. But when this was complete my LaCie drive had no files on the drive at



Rearranging partitions with Disk Utility is safe, but back up your disk first, just to be sure.

all. I have not written anything to the drive since. How do I recover my photos and music?

Peter Ellett

A Disk Utility lets you delete a partition and expand the remaining one to fill the disk and the only files that are lost are those on the deleted partition. That's how it's supposed to work, anyway. Since your disk now looks empty, something has evidently gone wrong. Maybe you deleted both partitions and created a new, blank, one. Or maybe the partition table became corrupted. It doesn't matter, the fix is the same. Broken or deleted partitions are easy to restore, provided you don't write to the disk in the meantime. Commercial data recovery tools such as *Disk Warrior* and *Remo Recover* will do it, but there are open source tools too. Try *TestDisk* (www.cgsecurity.org/wiki/TestDisk).

"How can I stop my photos time-travelling?"

Q I have an iMac about 18 months old and *iPhoto* '11 version 9.1.5. I have scanned old negatives to create digital pictures, and then using batch change, inserted a current date and time to each and modified the original pictures. When I copy or export

these pictures to an external hard drive, they lose the info and just have the 'created', 'modified' and 'last opened' dates, as when they were copied or exported. How can I keep my own dates and times?

Derek Butler

A Most cameras add information about the aperture, shutter speed and so on in a header to the image itself, called the EXIF data. The date and time the photo was taken is part of the EXIF data and is normally set from the internal clock on your camera. When you use *iPhoto* to set the date on your scanned negatives, you are writing to this EXIF data. Now, when you export the photos to the external drive, the EXIF data is preserved but the copies are new files. OS X will give the files their own date stamps that are separate from the photos' metadata.

You can override the date stamps, using the info in the EXIF data. Do this using the open source tool *jhead* (www.sentex.net/~mwandel/jhead) and put it in the Applications folder. *jhead* is a command-line only tool so open *Terminal* to use it. Set the permissions to make it executable by anyone, with `chmod +x jhead`. Now you can navigate to the folder containing your exported photos and type `jhead -ft *.jpg`. This will change the file creation date for each image so it is the same as the EXIF data.

Back to Mac for Front Row

Ian Osborne



Does anyone miss Apple's *Front Row* media centre software? Although it offered a useful means of enjoying your photographs, music and videos through a single application, and was controlled by a handy Apple Remote, by the time *Lion* was released in July 2011 it looked shabby and out of date. Microsoft's *Windows Media Center* for the PC was streets ahead. Clearly, a new approach was needed.

But if Mac users hoped for a revamped *Front Row*, maybe based on the much more capable and productive software used for Apple TV, we were disappointed. Not only did *Lion* not revise the ailing media app, it dropped it altogether. This was a bewildering move considering the Mac mini gained a HDMI port a year earlier, making it a potentially excellent under-the-TV computer.

There's no reason *Snow Leopard's Front Row* can't run in *Lion*. American blogger Ralph Perdomo of Mac-Hatter Consulting transferred the application and its core components to the new operating system, documenting the procedure on his blog and compiling an installer for other users to download. Point your browser at <http://bit.ly/pYsnG8> and click on the download link marked

"Users who hoped for a Front Row based on the more capable software used for Apple TV were disappointed"

'FrontRow Enabler for Lion.pkg'. Installing *Front Row* is then as simple as double-clicking this file and following the instructions. Use it at your own risk, but it worked fine for us. Unfortunately, *iTunes 10.4* then broke compatibility. *Front Row* no longer plays content from your *iTunes* library, but it can still review images from *iPhoto* or watch videos stored in your **Movies** folder.

Perhaps it's time to let go of *Front Row*, and switch to a third-party media centre application. *Plex* (<http://bit.ly/ptfupc>) is everything *Front Row* should be. It can play media from your *iTunes* library, as well as from folders elsewhere on your Mac, allowing you to store your files wherever you like. You can operate it with the Apple Remote, and by installing plug-ins, you can use it to access online services such as YouTube and BBC iPlayer. *Boxee* (<http://b0x.ee/gB1fqh>) isn't as Mac-like as *Plex*, but it supports a huge range of file formats and media sources and unlike *Plex*, it works in Tiger. Both are Intel only, so if you want to give your old PowerPC Mac a new lease of life as a media centre, try *XBMK* (<http://bit.ly/nv4wnG>). ●

Ian Osborne has convinced everybody around him of his super powers by secretly controlling their Macs with his Apple Remote. He has just been made an honorary member of the Magic Circle.



» QUICK TIP



If *Time Machine* gets stuck on 'Calculating Changes' go to **System Preferences/Energy Saver** and uncheck **Put the hard disk(s) to sleep when possible**.

"Have my documents gone forever?"

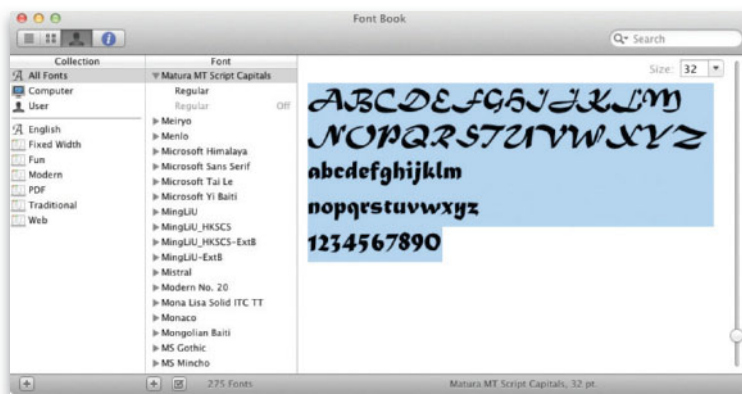
Q Recently I had a folder full of important documents just vanish into thin air off my desktop (two years' work). I am running *BumpTop* for my desktop and have done for at least a year on a MacBook that's about four years old. I am running 10.6.8. The documents are mostly *Pages* documents and some JPEGs and one *Illustrator* file.

I haven't got the foggiest where they have gone. I have attempted to use deleted file recovery software called *Stellar Phoenix* but it hasn't brought up a single *Pages* or *Illustrator* document. I have also gone back to both the *Pages* and *Illustrator* "Recently Opened" and they don't even show the documents concerned.

I am wondering if you could help me get to the bottom of this. I haven't backed these items up even though the day they disappeared that was what I was about to do.

Grant May

External backup disks are very cheap and essential. Buy one for every Mac you own.



Design rule number one: if the reader notices the font, you've chosen the wrong one...

A Since you have already tried commercial recovery software, the only avenue left to you is a specialist data recovery company such as Kroll Ontrack (www.krollontrack.co.uk). If your data is still on the disk, they will find it for you, but it won't come cheap. Expect to pay from a few hundred to a few thousand pounds, depending on how much data there is and how much work it takes to resurrect it.

Backing up your hard disk beforehand isn't nearly as difficult, expensive or time consuming. An external 1TB hard disk costs about £40. Plug that into a spare USB port on your Mac and turn *Time Machine* on. That's it, you're done. In fact, backing up is so easy nowadays that I am forced to conclude that some

people enjoy the illicit thrill of abruptly losing months or years of irreplaceable data. I'm sure you aren't one of them though, so treat the bill from the recovery company as your tuition fee and go and turn *Time Machine* on... right now.

"How do I stop a margin appearing on my bleeds?"

Q I'm a music administrator and I am currently producing a four-page A5 brochure, using a *Pages* brochure template. I managed to do this last year with some success and am now updating and improving it for 2012. However, my problem is bleed. I cannot get the front page, which is

» MACFIXIT TIPS / Use Preview to take screenshots in OS X

The ability to quickly save the content of your screen is a very convenient and useful feature to have, especially if you are troubleshooting aspects of your system. If an error window pops up on screen, instead of describing it to a technician, it helps to snap a screenshot and send that to better show exactly what is going on. It's also less frustrating for all concerned.

There are several options that you can choose to create screenshots in OS X, including Apple's *Grab* utility and the common keyboard shortcuts for doing so. But in addition to these, you can also use *Preview*. Generally this tool

is used for viewing PDFs and image files, but it can also be used to scan documents, import files from cameras, and grab various types of screenshots.

To use *Preview*'s screenshots function, open the program and go to the File > Take Screen Shot menu, followed by selecting one of the three options for taking a screenshot.

1. From selection

This will display a crosshair cursor, which you can then use to grab a section of your screen to include in the screenshot. This is great if you want to use only a portion of the screen that includes multiple windows,

without taking a full screenshot and then cropping at a later point.

2. From window

This option will make the mouse cursor highlight various windows onscreen, and when you click them, it will take a snapshot of the selected window. This is convenient for creating a full image of a single window, including its surrounding shadow, which can be nice for making presentations of screenshots.

3. From entire screen

This will take a full picture of the whole screen, which you can then select from and crop according to your needs. This is

the classic screenshot option that most people may be accustomed to.

When these particular functions in *Preview* are invoked, the resulting image will be placed in a new window for you. And it is from here that you can annotate, crop, or otherwise edit with *Preview*'s various utilities, and then save in the format of your choosing (PNG is the default).

Preview's screenshot capabilities may be convenient, but if you want a full set of screenshot options then your best bet is to either use Apple's keyboard shortcuts or the *Grab* utility (available in the **Applications/Utilities** folder).

full colour, to print without a narrow white border on three sides. My local One-to-One advice was to extend the colour to outside the A5 page, but that isn't working. Last time I sent it to professional printers, who were able to utilise their clearly much more professional skills to solve the problem, but I really do want to print it myself.

Joanna Wiesner

A This could be a lot of things, but let's start with the ultra-obvious: does your printer even support marginless printing? Even if the printer does, the Mac driver for it may not. Save your brochure as a PDF file by clicking the PDF button on the Print dialog and compare how it appears in *Preview*, with how it actually prints out. Another possibility is that the margins are introduced by the A5 format you are using. Is your paper size set to A5 within *Pages*? Or are you sending A4 pages to the printer and using some kind of scaling function in the printer driver to print two pages on a single sheet? Sometimes these virtual pages that are smaller than the physical paper size can cause rogue margins to appear. You might be able to kludge this by laying out your brochure manually with A4 pages in landscape

that you then divide into two columns, one for each A5 sub-page.

One final thought – and I know that this is really none of my business, but: are you absolutely certain that you want a full-colour front page anyway? That blue gradient fill with a big green star and lettering in Matura Script Capitals could look better. If you print it on an ink-jet printer you will use a ton of ink to end up with something that looks like a poster for a school Bring & Buy sale. A simple logo and a more restrained font – Tahoma, say, or Palatino – will look a lot classier.

“I want to get Hotmail on my iPad fuss free”

Q How can I easily access Hotmail through the *Mail* app on my iPhone and iPad? If I manage to get it working will I still be able to keep my contacts and such, and will it still have the same spam filters as it does when I use it through *Safari*?

Roger Burt.

A Microsoft enabled Exchange ActiveSync for Hotmail last year, so it's quite easy to do now. On your iPhone or iPad, tap Settings > Mail, Contacts, Calendars > Add Account... and choose Microsoft Exchange.

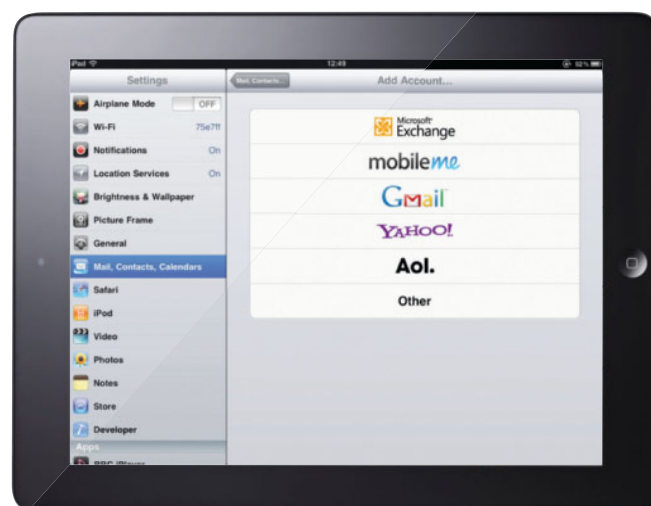
Ignore the domain field and put your Hotmail address as both the email address and the username. Once it has verified this, you can enter m.hotmail.com as the server and tap Next. Then make sure the sliders for syncing *Mail*, *Contacts* and *Calendars* are all set to 'On', and you're done. Spam filtering is all handled at the server end, so it should work exactly the same.

And if you're using iOS5, which will be out by the time you read this, it will just make it even easier. Hotmail will be included as one of the mail account types, along with Gmail, MobileMe and so on, so you won't need to bother with Microsoft Exchange.

>> QUICK TIP



With OS X Lion, you can now mouse over any item in the Spotlight search results list and see a *Preview* of it. If you want to make a copy of the file, you can just drag a search result to the desktop or another folder.



Microsoft Exchange accounts can be used to connect iOS devices to Hotmail.

• $\square + \square + \square$: This screenshot function will take an image of the full screen.

• $\square + \square + \square$: The “selection” mode will take a shot of an area that the users can outline by dragging the cursor.

The $\square + \square + \square$ keystroke has some additional options once invoked. If you press the space bar when the selection cursor appears, you can click on individual windows (even if they are not in focus) to take a screenshot of them.

In addition, if you start a selection of the screen with the cursor, you can adjust its location by holding the space bar when

the selection box is on the screen. With the space bar held down, moving the mouse will move the current size of the selection box around on the screen. Releasing the space bar will then allow the selection box to continue to be resized.

Similar to holding down the space bar with the selection box present on screen, if you hold down the $\square$ button, then you will be able to adjust the size of the selection box either vertically or horizontally (determined by the initial movement of the mouse after $\square$ is held). As with the other screenshot options, releasing the mouse will result in the screenshot being taken, but if you

press $\square$ then you will cancel the screenshot process.

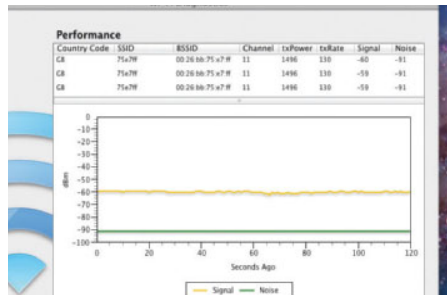
Another convenient feature for any of the keyboard screenshot combinations is to include the $\approx$ key in the key sequence, which will put the resulting screenshot in the clipboard instead of placing it on the desktop.

If you memorise them, these keyboard shortcuts will allow you to take shots of selections, windows, or the full screen and save them either as a file to the desktop or to the clipboard for pasting into any program you wish. However, if you forget them then most of the common screenshot options can be done by launching *Preview*.

One last option to keep in mind is if you would like to keep the OS X cursor in the screenshot (this can be very useful for illustrative purposes, say for a presentation), then using the *Grab* utility is your best bet. This is especially true if the cursor you want to include is a nonstandard one like the hand pointer, a crosshair, or alternate forms of the standard pointer; the *Grab* utility allows you to specify the type of pointer to include from a selection of common ones.



» HOW TO / Check your Wi-Fi reception



01 Hidden tool

OS X Lion includes a Wi-Fi diagnostics tool that can measure the signal strength of your wireless network. It's intended for use only by Apple technical support though, so it's tucked away in **/System/Library/CoreServices**, rather than the **Applications/Utilities** folder.

02 Signal strength

Select **Monitor Performance** and click **Continue**. You'll see a real-time graph that samples the strength of your Wi-Fi signal and the amount of background noise, as measured at your Mac. The difference between these two values is your signal-to-noise ratio or SNR.

03 Loud and clear

An SNR of more than 40dB represents optimum reception, with four signal bars on the Wi-Fi icon on the menu bar. If the SNR is below 20dB, reception is poor and you can improve it by moving closer to the wireless router (to increase signal) or removing sources of interference (to reduce noise). ●

» MACFIXIT TIPS / OS X Lion: Where did my windows go?

If you use OS X Lion, you might run into a particular problem that has cropped up. Some users have mentioned that when they switch applications, enter Mission Control, or use other features of the OS that manage application windows, the collection of currently open windows for a program may disappear. If this happens, switching to the application or hiding and unhiding it does not reveal any windows. But if you check the **Window** menu in the application you will see that the windows are definitely active and recognised by the system as being available.

This bug may be with one of Lion's new window management features, such as Autosave or Mission Control, which actively track and affect how an application positions and displays windows. Apparently some bug sets the windows to a hidden state, but luckily you can get the windows back by triggering their positions or active status by one of the following two approaches

(windows will still be listed in the **Window** menu):

1. Select from the Window menu

The first option you can try is to select the desired window from the application's **Window** menu. Doing this will trigger the window to be brought to the front, thereby altering its positioning settings and making it visible again. When you do this, the window may not show up in the expected location, and instead may be tucked to the side or at the bottom of the screen. So be sure to check around the edges of your screen for it. In addition, the window will likely be collapsed, so be sure to drag one of the edges to resize it properly again.

2. Quit and relaunch the program

Quitting and relaunching the program will also trigger the window's positioning, and unlike selecting each window from the **Window** menu one at

a time, should make all of them visible at once. Unfortunately, as with using the **Window** menu the windows are also likely to be collapsed and then consolidated in one location on the screen, so you will have to manually resize them.

So, when relaunched the application windows may still be taking up one location on the screen. This is the point that you will have to manually resize and reposition them.

If your program supports Apple's new Autosave features, then it will quit immediately, but if it doesn't then it will bring any unsaved application windows to the forefront. It will then ask you whether or not to save your changes. Either way, your data should be saved.

Tips supplied by MacFixit.com

MacFixit, founded in 1996 by Ted Landau, has grown into the premiere destination for users seeking resolutions to bugs and conflicts. Visit www.macfixit.com for the latest Mac information.



"Can I go back to a previous version of iPhoto, please?"

Q I followed instructions on the *iPhoto 11*, v.9.1.5 tuition movie to double-click on an Events picture to open it, so as to rearrange its contents. Trouble is, nothing happened as a result of my double mouse-click. Any advice? I much preferred *iPhoto '10*; much easier to organise stuff within it. I still have my CD of *iPhoto '10*. Would it be possible for me to replace *iPhoto '11* with *iPhoto '10*?
Chris Royal-Dawson

A Well, there is actually no such thing as *iPhoto '10*. The version you currently have is *iPhoto 9* that is bundled with *iLife '11*. Because everyone gets their *iPhoto* as part of the *iLife* suite, it is quite common for this to be referred to as *iPhoto '11*, but technically, it is 9. The previous version of *iLife* was '09 and this included *iPhoto 8*. So you want to downgrade from *iLife '11* to *iLife '09* or from *iPhoto 9* to *iPhoto 8*, but definitely not 10.

Reinstalling *iPhoto 8* from the DVD is quite straightforward but when you first launch it, you'll need to locate your *iPhoto 9* library in **~/Pictures** and right-click it to show the package contents. Dragging the Masters folder



You can't easily copy the files out of an Apple TV without removing the hard disk first.

into *iPhoto 8* will import the original pictures but you'll lose all the metadata. That includes any albums, tags and photo edits. If you have an old backup of your *iPhoto 8* library, you can restore `/Library/Application Support/iPhoto, /Library/Documentation/Applications/iPhoto` and `~/Pictures/iPhoto Library`. You'll keep all the metadata and then you can just reimport the pictures you have taken since you made the upgrade to *iPhoto 9*.

Your problem with clicking events just sounds like a corrupted photo database though. It's possible that some of the things you don't like about *iPhoto 9* are probably a consequence of this. Try launching *iPhoto* with `(⌘)+(⌘)` pressed down and selecting Repair the *iPhoto* database, before you rush to downgrade.

"Last generation Apple TV was my trusty backup"

Q My beloved 27-inch iMac was cruelly stolen earlier this week! Fortunately, I will be receiving a replacement early next week. But, here is the problem. My iMac was twinned to a last-generation Apple TV with the hard drive. Is there any way I can possibly get my photos and music onto the new iMac from the Apple TV?

Jeff Short

A You'll need to crack open the Apple TV and pull the hard disk from it. Now install it in an external USB or FireWire drive enclosure (you can easily get these for under £20 from Amazon and suchlike) and plug

that into your iMac. Apple TV renames all your media files according to its own opaque scheme, so you can't just copy the files across. But if you use *iTunes* and Add to Library... the metadata will all be preserved. I haven't tested this, but I assume the same will work with *iPhoto*.

"Zombie printer is still lurking around my Mac"

Q Recently one of my Epson printers died and seeing as this particular model was discontinued I annoyingly had to buy a different model. However, the new machine is now installed and running perfectly, but it is a little irritating to have the old machine still listed. I have found the Epson 360 software and trashed it, but can't seem to get rid of the 360 in the list of printers in the System Profile.

Mike Corbett

A Evidently you didn't manage to get rid of all the Epson files. You should just be able to select the printer in the Print & Scan preferences pane and click the minus button at the bottom. If that doesn't work, hold `⌘` down and click on an empty part of the printer list in the preferences pane and select Reset printing system... This will delete all printer configuration files, so you'll need to add your new printer back in, afterwards. If your old printer still shows up, you'll have to search through `/Library/Printers, /Library/Receipts` and `/Library/Preferences` for any files that might be related to your Epson 360 and delete those. ●

On the forum

Help and advice from readers



Q With Snow Leopard (and before) I could easily identify which folder contained a file that I was looking for, for example if I needed to extract the information for another application that I was using. Although Spotlight in Lion will bring up the file and display what it contains, I cannot see which folder contains this file so that I can locate it. Any help would be greatly appreciated! Thanks.

philipc Join Date: Sep 2011 Posts: 2

A I may be missing something here, but can't you do what you want to do directly using the *Finder* search bar? You may have to enable the *Finder* path bar - to do this, open a *Finder* window then select View > Show Path Bar. I hope this helps.

mcf_frosty Join Date: Jul 2009 Location: Wales Posts: 2

Q A few days ago I reinstalled OS X and I'm trying to get all my files back off *Time Machine*. But I think I may have put a different name on my main user account. And now I can't get some of the files to copy back from *Time Machine*, as it says I don't have the right permissions. How do I get the permissions changed so I can copy the files back correctly? Any help or advice is greatly appreciated.

Beano.beanothedrummer Join Date: Aug 2011 Posts: 1

A Use the application *Migration Assistant*, which you'll find located in your *Utilities* folder. From the *Finder*, the shortcut to get there is `(⌘)+(⌘)+(⌘)`, it is in Applications > Utilities > Migration Assistant.

With your *Time Machine* disk plugged in, you can then use the *MA* interface to determine what you want to transfer. Use the disclosure triangles and checkboxes to select exactly which parts of your backup you want to transfer.

Don't try to copy individual files or folders directly from your *Time Machine* backup into another user account, you will only get in a mess because of permissions. Use the *Migration Assistant* interface. You may have to enable the *Finder* path bar - to do this, open a *Finder* window then select View > Show Path Bar. Hope this helps.

mcf_Leewave Join Date: Sep 200 Location: Northern Lakes Posts: 2,889

A Having transferred everything across, when it comes to your next *Time Machine* backup you will not be able to use the old one. *TM* will start a new backup folder for your new account. Later on when you are happy that everything has been transferred and your new backup is working properly and you don't need the old backup, you can just delete it to save space. You can do that directly with the *Finder* and then empty the Trash.

The separate *Time Machine* backup folders will be inside the `Backups.backupdb` folder on your backup drive.

mcf_Leewave Join Date: Sep 200 Location: Northern Lakes Posts: 2,889

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<http://forum.macformat.co.uk>

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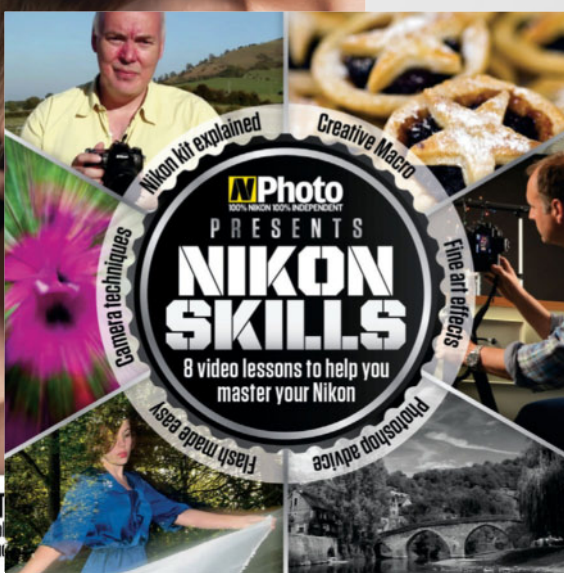
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With our ultimate guide to night-time and low-light photography p67

“ Use my guide to shooting better landscapes to take your sceneries to another level! ”
Jeremy Walker, pro photographer

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TIPS FROM THE
Leading photographers their Nikon know how



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GROUP TEST

Multifunction inkjet printers	112
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"If you're looking for an inkjet printer that's also a scanner and copier, you're spoiled for choice. But which performs best?"

MULTIFUNCTION INKJET PRINTERS REVIEWED ON P112

Reviews

● **HARDWARE** ● **SOFTWARE** ● **IPHONE APPS** ● **SHAREWARE** ● **GAMES**



Ian Osborne
Reviews Editor

The iPhone 4S received a mixed reception when it was unveiled last month. Some lauded its better camera, faster processor and (of course) Siri voice recognition, but others expected a more radical revision: the iPhone 5, not 4S. So is Apple's latest smartphone a letdown, or are the nay-sayers missing the point? Over on page 86, Graham Barlow finds it's a useful but not essential upgrade.

The other big Apple review this month is the Thunderbolt Display, over on page 89. Thunderbolt is an exciting new data

and video I/O technology, but take-up seems slow. Will this upgrade to the Apple Display finally see the port become more widespread, and is it worth buying if you don't yet own a Thunderbolt-equipped Mac? Our former deputy editor Christopher Phin has the answers.

Over in the software section, current deputy editor Rob Mead-Green takes a look at *VMware Fusion 4*. Is this virtualisation suite as powerful and capable as its main rival, *Parallels Desktop 7*, reviewed last issue? Flip to page 99 to find out.

>> OUR LOGOS



A product that receives the MacFormat Choice award is the best in its class when reviewed.



Used in our Group Tests, MacFormat Winner indicates the product that we feel stands out.



This logo indicates there are either test versions or files associated with the review on the disc.

RATINGS EXPLAINED: ★★★★★ Excellent ★★★★★★ Very good ★★★★★★ Good ★★★★★★ Adequate ★★★★★★ Poor

>> SMARTPHONE

Apple iPhone 4S



From £499 off-contract There's more to the 4S than meets the eye, but is it worth upgrading?

CONTACTS

Manufacturer: Apple
www.apple.com/uk

SPECIFICATIONS

Compatible networks: UMTS/HSDPA/HSUPA/GSM/EDGE & CDMA
Available capacities: 16GB, 32GB, 64GB
Display: 3.5-inch Retina Display at 960x640 resolution
Wi-Fi: 802.11b/g/n (2.4GHz)
Other: Bluetooth 4.0, 1080p video-capable 8-megapixel camera
Talk Time: 8 hours on 3G, 14 hours on 2G
Standby: 200 hours
Sensors: Proximity sensor, 3-axis gyroscope, Accelerometer, ambient light sensor
Weight: 140g
Dimensions: 115.2x58.6x9.3mm

PROS & CONS

- ⊕ Siri helpful for making notes
- ⊕ Impressive camera, 1080p video
- ⊕ Massive new 64GB capacity
- ⊕ AirPlay mirroring to Apple TV
- ⊖ Same speed to take photos
- ⊖ Siri too US-centric for maps

VERDICT

★★★★★

"Newcomers will delight in its many accomplished features, but there's no convincing argument to upgrade from iPhone 4."

The A5 chip in the iPhone 4S enables you to record video in full 1080p HD.

Only a few months outside of its normal 12-month life cycle, the new iPhone is finally with us. Not that you would know it from a quick glance. However, there are subtle clues: the mute switch is a little closer to the volume buttons, and marks that indicate the antenna arrangement have shifted, but that's it. Love it or loathe it, the beautiful but low-friction case remains for a little while longer.

It's good news on the antenna front, though. Gripping the phone in the way that could provoke a drop in signal bars on the iPhone 4 has no visible effect on the 4S.

Changes in the 4S run much deeper than its form and name suggest. Key components have been replaced, and the heart of the machine is a dual-core A5 processor, just like the iPad 2. Like the iPad, the 4S features AirPlay Mirroring to send its display – or custom output – to an Apple TV, opening up a world of possibilities for games in particular. Firemint's *Real Racing 2* is a good showcase of this.

Picture this

The closest the 4S comes to a truly 'wow!' moment is being able to edit and export 1080p video in *iMovie*. Launching and switching between apps was responsive enough on the iPhone 4, and there's insufficient difference in rendering typical websites to warrant replacing it just yet. However, the compelling features are the camera and of course the



The iPhone 4S is available in either black or white, and 16GB, 32GB or 64GB capacities.

redeveloped voice control Apple has made a song and dance about.

But we'll come to Siri in a moment, because the 4S doesn't rest on its predecessor's laurels where photos and video are concerned. Its camera is

and exposure by tapping, and shoot. The 4S doesn't compete with high-end compacts for fine control and the creativity offered by optical zoom, but we reckon you'll find yourself leaving the compact behind more often.

"In well-lit and outdoor scenes, the 4S takes beautiful shots that are vibrant, detailed and which even have good depth of field"

an entirely new beast, with a sensor resolution of eight megapixels, new optics and a wider maximum aperture of f/2.4 to let in more light.

In well-lit and outdoor scenes, the 4S takes beautiful shots that are vibrant, detailed and which even have a good depth of field. Noise remains visible in low-light scenes, but it doesn't dominate the resulting images to the same level of distraction as before.

Apple hasn't budged on manual control, though. iOS 5's *Camera* app remains focused on simplicity: point, perhaps take time to lock the focus

Video is recorded at 1920x1080. Its picture fidelity is sharp and smooth, but the increase in resolution from the iPhone 4's 1280x720 pixels inevitably means larger files.

The front-facing camera, typically used for video calls, remains unchanged at 640x480 pixels, which is adequate but a bit disappointing if you've used the FaceTime HD camera in the most recent MacBook Pro.

Equally disappointing was that we saw no change in the time it takes the *Camera* app to wake up, or to take a photo, so you might not get exactly what you wanted. There's also a



>> QUICK LOOK / What's new in the iPhone 4S

familiar slowness to leaving control of the focus in the app's hands when looking at a fast-moving scene. Hold onto your compact if you depend on full manual control, fast focusing and a powerful optical zoom. For quick snaps, though, the 4S is a delight.

Talk to me

Voice Control first appeared on the 3GS, but it's limited to calling contacts and playing music. Siri offers much broader control of many more features, and it's packed with personality. Hold the Home button for a couple of seconds, then dictate a command or ask a question. Sit back and watch as Siri works out what you've said and tries to act on it.

You can dictate notes, set reminders, add events to your calendar, and even ask questions like "what's the weather going to be like in London on Friday?" It will even respond to more unusual commands with amusing responses. Although apps from the App Store can't be controlled, a microphone button on the keyboard lets you dictate text to them. If tapping out details is tiresome for you, Siri is a soothing change of pace, like emerging from a hot office and letting someone else serve you ice-cold drinks.

Siri is aware of context, so you can hold short conversations with it. Tell it to compose an email and you'll be asked in turn for the recipient's name, subject and what you want to say. If you already provided some of those details in your initial request, Siri adapts its dialogue to suit.

Accented speech

As for how Siri deals with accents, you can watch a video of Siri in action, tested with a variety of UK and European accents by our sister magazine *Tap!*, at <http://tinyurl.com/68coans>. Even though we aren't overwhelmed by Siri's accuracy, like other voice recognition software it will adapt to your voice over time. It does a good enough job out of the box,

Retina Display

The bright widescreen multi-touch display is unchanged in its 3.5-inch size and sharp 640x960 resolution.

Antenna

The 4S has a redesigned antenna that doesn't exhibit the same reduction in signal bars when held using the so-called 'death grip'.

Voice control

To start a conversation with Siri, simply hold the Home button or raise the iPhone to your ear while the screen is on.

Camera

Photo quality is improved not just thanks to the 8-megapixel sensor resolution. The 4S also has a new lens, IR filter and a wider aperture.

Bluetooth 4.0

This is the first iPhone to feature next-generation Bluetooth technology, including a special low-power mode.

A5 processor

Here, the A5 processor is given a harder task than in the iPad 2: you can edit 1080p video and export it using *iMovie*.



though you might have to put on your phone voice, so to speak.

Here in the UK, there's a rather formal tone to interaction with Siri. It speaks in a restrained English male accent. That doesn't lessen the impressiveness of the technology, but diversity would be welcome. We would love to hear Fiona, the Scottish voice in OS X Lion's text-to-speech feature, whose tone is far friendlier.

Accents aside, Siri's functionality is slightly limited in the UK. It won't show businesses and locations on a map. That's limited to the USA, at

least for now. Even so, Siri remains a fascinating enhancement that's genuinely useful for taking notes while on the move - with one caveat.

You'll need a good internet connection to make proper use of Siri. It sends a recording of your voice to a remote server, which does the hard work of deciphering your meaning and delivering a response. Siri is, by nature, inherently useful when you're on the street. But if your 3G coverage is poor, Siri will be stopped dead in its tracks and you won't be impressed.

Graham Barlow

>> TOP 3 FEATURES / Where we're impressed

**Siri**

Siri introduces bona fide convenience to setting up reminders, calendar events and dictating into apps. It also has amusing responses to questions that play on pop culture.

**Face detection**

When photographing people, exposure is set based on the most prominent face in the scene. It's then adjusted from that point to get the best level - for up to 10 people in the shot.

**Video stabilisation**

With no extra effort on your part, the Camera app minimises the effect of camera shake - without the need for a gimbal camera mount. Even handheld recordings from a moving vehicle look great.

>> HEADSET AND USB SOUND CARD

Creative Sound Blaster Recon3D Omega Wireless

£210 Could this sound card/headset combo reinvent in-game chat?

CONTACTS

Manufacturer: Creative Technology
<http://uk.creative.com>

SPECIFICATIONS

Drivers: 50mm Neodymium magnet
Impedance: 32ohms **Wi-Fi:** 2.4GHz
System req: OS X 10.5, Intel 1.6GHz

PROS & CONS

- ⊕ Convincing 3D soundscape
- ⊕ Extremely feature-rich
- ⊕ Easy to set up
- ⊖ Mixed results from Scout Mode

VERDICT

★★★★★

"A superb package for use with both in-game and non-gaming audio."

Creative's Sound Blaster Recon3D is a USB sound card featuring the world's first quad-core sound processor. Throw in the Omega Wireless headphones, also part of this package, and you also have the world's first hardware-accelerated wireless headset. But do you need all this power?

The combined Sound Blaster Recon3D (£90 on its own) and Omega Wireless headset (£180) is certainly feature-packed. THX TruStudio Pro bass enhancement creates harmonics above the bass frequency without stressing the speakers. It delivers an awesome 3D soundscape for gamers, leaving you in no doubt from which direction those sniper bullets or footsteps came from; and one of its

The sound card and headset are sold separately or as a bundle.

four processor cores is reserved for voice chat, so you can talk without the frame rate dropping. Scout Mode emphasises a game's sound cues, but with varying degrees of success depending on the game. You can even synthesise voice effects to make you sound like an orc or a demon, for example. Some effects are more convincing than others.

The Omega Wireless headset – or indeed any headphones – connects to

the sound card using a 3.5mm jack, but if you fit the bundled wireless card you can make a

cable-free connection instead.

This short review couldn't possibly cover everything the Creative Sound Blaster Recon3D Omega Wireless bundle is capable of. But suffice to say it's the ultimate headset package for gamers, and pretty good for non-gaming audio too.

Ian Osborne



>> DESKTOP HARD DRIVE

Iomega Mac Companion 2TB

£170 Not just your average box full of bytes

CONTACTS

Manufacturer: Iomega Corporation
www.iomega.com

SPECIFICATIONS

Capacity: 2TB **Form factor:** 3.5-inch **Interfaces:** FireWire 800 (400 with lead), USB 2.0 **Weight:** 1.32kg

PROS & CONS

- ⊕ Charges your iPad
- ⊕ Fast 7200rpm drive
- ⊕ Robust and attractive
- ⊖ Sync OR fast charge

VERDICT

★★★★★

"A sleek, high capacity drive with features that aren't just gimmicks."

This is no ordinary desktop hard drive. Along with the brushed aluminium and smoky black casing, designed to sit comfortably (and look great) on the foot of an iMac or Apple Display, Iomega Mac Companion also has a useful charging feature.

Mac Companion is, of course, Mac-formatted out of the box. Connect it to your computer through USB and you also benefit from its two-port hub. If you use FireWire 800 for its faster data transfer speeds, there's a second port for daisy chaining. But far more interesting is the high-powered USB port on the side of the drive. It's there for charging iOS devices, and is optimised as a fast-charging port if you're using FireWire, or have the

Iomega's Mac Companion is built to sit on the foot of your iMac or Apple display.

drive powered via the mains but not connected to a computer.

With the drive connected to your Mac through USB, the charging port delivers 500mA of power and can also sync your iOS device. In our tests, it took just over 13 and a half hours to fully charge a flat iPad 2. Connect using FireWire and it can no longer be used for syncing, but it delivers 1000mA of power and charges in under seven and a half hours. You can't connect using both at the same

time. We think FireWire makes most sense as it gives you faster data transfer and charging, and you can sync using your Mac's own USB ports.

Available in 2TB or 3TB versions, Mac Companion uses a fast 7200rpm drive. In testing, it achieved random read/write speeds of 14.5/14.7 MB/s under USB and 21.8/21.2 MB/s using FireWire. Given the feature set that's included as standard, it's good value for money too.

Ian Osborne



>> DISPLAY

Apple Thunderbolt Display

£899 Huge, and hugely convenient, but you could buy a MacBook Air for less...

Glance at Apple's new Thunderbolt Display and you might mistake it for an iMac. Look a bit closer, and you might still be fooled – the display is the same as the panel used in the current 27-inches. Even if you were to take it apart, the sheer volume of chips, ports, fans and assorted gubbins inside it might not convince you that this is just a monitor. But it's more than just a monitor!

Let's start with its performance as a straight display, though. It's entirely as we've come to expect from Apple: a glossy panel (no option for matte) with a high resolution and gloriously wide viewing angles. As usual, colours are good – if perhaps no more than good in the eyes of demanding creative professionals – and the general feel is rewarding. 27-inches can dominate many desks, but it's undeniably lovely to have so much space in which to stretch out. So far, so utterly predictable for an Apple monitor: an entirely competent display. While it can be bettered in price by Dell's UltraSharp U2711 which uses the same panel (and is available online for as little as almost half) and

"The display has a FaceTime HD camera, mic, speakers, three USB, one FireWire 800, one Gigabit Ethernet and one Thunderbolt port"

bettered in image quality from high-end displays from NEC and Eizo, it's still an object of lust for many folks who own other Apple kit.

The clue to the Thunderbolt Display's uniqueness, however, is in its name; it connects not with VGA, DVI, HDMI or even Mini DisplayPort, but using the new Thunderbolt connector. While this means that you have to have a Thunderbolt-equipped Mac in order to use this, it brings some terrific benefits. The reason there's so much circuitry inside the Thunderbolt Display's case, you see, is that it connects a whole host of functions to your Mac with just a



If it looks like an iMac, walks like an iMac... it's a Thunderbolt Display.

single cable. The display itself has a FaceTime HD camera, mic, surprisingly capable speakers, three USB ports, one FireWire 800 port, a Gigabit Ethernet port and a Thunderbolt port on the back. (The presence of FireWire and Ethernet is especially important for MacBook Air owners, whose notebooks lack these ports.) What's more, the Thunderbolt cable

adapting, say, a DVI connector to Mini DisplayPort; that's a little irritating.

This, then, is an oddly tricky product to sum up. The panel itself is typical Apple fare: very good if not stellar, and when judged in isolation, dizzyingly overpriced. If you have a Thunderbolt-equipped Mac, however, especially if it's a notebook, the sheer convenience of the display is beguiling. Plugging in a single cable to connect a wide range of high-speed and legacy peripherals is something we could definitely get used to.

Christopher Phin

CONTACTS

Manufacturer: Apple
www.apple.com/uk

SPECIFICATIONS

Resolution: 2560x1440 pixels
Viewing angle: 178° (horizontal and vertical) **Brightness:** 375 cd/m2 **Contrast ratio:** 1000:1
Response time: 12ms

PROS & CONS

- ✚ A good display
- ✚ Single cable convenience
- ✚ Boon for MacBook owners
- ✚ Daisy-chaining Thunderbolt
- ⊖ Limited compatibility
- ⊖ Expensive

VERDICT

★★★★★

"If you have a MacBook with Thunderbolt, it's a lovely thing. But £899 lovely? A tough call."

Thunderbolt: a single cable that allows access to a range of high-speed peripherals.



>> UNIVERSAL REMOTE CONTROLLER

Griffin Beacon Universal Remote

£61 Control your kit with your iOS device

CONTACTS

Manufacturer: Griffin Technology
www.grifintechology.com

SPECIFICATIONS

Range: 30m

Power: Four AA batteries

Battery life: Up to eight weeks

PROS & CONS

- ⊕ Comprehensive and versatile
- ⊕ Excellently designed
- ⊖ Reasonably priced
- ⊖ Some functions need training

VERDICT

★★★★★

"The best universal remote available for iOS, but it's not perfect."

The Griffin Beacon is a universal remote control app and hardware combo that can be used with a huge number of living-room devices. Instead of an attachment for your iPad, iPhone or iPod touch, it works using a separate infrared box which links through Bluetooth. The box must be placed within range of all the devices you want to control. This might be a problem if (for example) your stereo is in a different part of the room to your TV and video. After an initial pairing, you re-establish the connection by switching on Bluetooth on your iOS device and pressing down on the Beacon, so there's no lengthy reconnection process to go through.

The Beacon can learn commands for remotes it doesn't have the details for.

The actual remote controlling is done using a free third-party app. Simply browse for your remote by device type and manufacturer, and the app lets you test several different remotes to see which is the right one. We found it infallible when pairing the various remotes in our living room, though as we started to watch an episode of 24 we realised we were actually watching the wrong one and our Toshiba DVD player iPad remote had the Menu button greyed out. We

managed to get it back by pointing the original Toshiba remote at the Beacon and pressing the appropriate button.

At £61, the Beacon is a mostly impressive device for a fairly good price. The inconvenience of connecting to Bluetooth devices within iOS has been kept to a minimum, while the app is slick and can easily learn the commands it doesn't have the details for.

Dan Grabham



>> HOMEPLUG NETWORKING PLUGS

Devolvo dLAN 500 AVplus Starter Kit

£120 The easy way to create a wired network

CONTACTS

Manufacturer: Devolo AG
www.devolo.com

SPECIFICATIONS

Contains: 2 x Homeplugs, 2 x Ethernet cables, CD and instructions

Transmission speed: 500 Mbps

PROS & CONS

- ⊕ Very fast speeds
- ⊕ Easy to set up
- ⊖ Very reliable
- ⊖ Misleading instructions

VERDICT

★★★★★

"These easy-to-set-up homeplugs come highly recommended."

Homeplug AV is great for creating a wired network without trailing cables across the house. Just connect your router to a nearby plug socket using one of the supplied homeplugs, and use the other with your Mac. Data passes between the plugs over your electrical cables, giving you a wired router connection anywhere in the house. These new plugs are capable of transfer speeds of up to 500Mbps, which is over twice as fast as the older dLAN 200Mbps standard.

Setup is easy, as long as you ignore the incorrect instructions and out-of-date wizard on the bundled CD: download the free *Cockpit* network manager from Devolo's website instead. The plug connected to your

The Starter Kit contains two homeplugs and Ethernet cables - everything you need to get you started.



local computer is automatically detected, and others are added to the network by entering a unique security code printed on each homeplug. If you need extra plugs you can add them later, and the new dLAN 500 plugs are compatible with dLAN 200 units, albeit at 200Mbps transfer speeds.

In our tests, the new dLAN 500 standard proved its worth, achieving speeds of 450Mbps and higher on our

home network. Devolo's older dLAN 200 plugs managed around 155Mbps. Streaming a 1080p movie proved difficult, with stuttering and pixellation evident, but two 720p videos streamed simultaneously without problems (it struggled with three). It's great to see more powerful homeplugs aren't much more expensive than the older ones too.

Ian Osborne

REVIEWS



You'll know you've been Tangoed when you see and hear this XtremeMac speaker.

Photography: Joe Branstion

»» MAC SPEAKER SYSTEM

XtremeMac Tango Bar

£99 This speaker bar is the perfect fit for any iMac, Cinema or Thunderbolt Display

Traditional desktop speakers can take up a lot of much-needed space. If this frustrates you then the XtremeMac Tango Bar could be just what you need. It's been designed to easily fit between the lower edge of your iMac, Cinema Display or Thunderbolt Display and its foot, giving you extra oomph for your music, movies and games without taking up any more room.

The XtremeMac Tango Bar is easy to set up and use: simply plug the combined USB power/connector cable to a spare port at the back of your Mac then adjust the dial on its right side to raise or lower the volume. XtremeMac has added a smattering of extra connectors for added flexibility, including an analogue audio input, a 3.5mm

headphone jack and a subwoofer output - although you'll have an offboard subwoofer yourself. The Tango Bar's range of ports also enables you to use it with a TV or MP3 player, although you'll need to plug the USB cable into a mains adapter (not included) to power it up. Its 56cm length makes it an ideal match for the 21.5-inch iMac.

The obvious question to ask at this stage is whether you need a Tango Bar at all: the iMac, Cinema Display and Thunderbolt Display have fairly

"Gives you extra oomph for your music, movies and games without taking up any more room"

decent loudspeakers built in already. So what does XtremeMac bring to the party?

Watch a movie in iTunes and you're rewarded with a richer, warmer sound than the iMac (for example) can muster, with dialogue sounding clear. You even get reasonable bass. The Tango Bar is convincing with music too. It can't match a proper hi-fi setup, of course, but it will relay your tunes with reasonable clarity.

If we have to criticise anything it's this: because the Tango Bar isn't attached to your iMac, Cinema Display or Thunderbolt Display it doesn't move with it, which is annoying. This could be solved by placing the rubber pads the Tango sits on in the centre instead of towards either end.

Rob Mead-Green

CONTACTS

Manufacturer XtremeMac
www.xtrememac.com

SPECIFICATIONS

Maximum output: 10W
Connectivity: 1x USB connector, 1x 3.5mm line input, 1x 3.5mm headphone socket, 1x subwoofer output
Dimensions: 584x110x105mm

PROS & CONS

- ⊕ Simple to set up, easy to use
- ⊕ Good for music and movies
- ⊖ No on/off switch
- ⊖ Doesn't move with your display

VERDICT

★★★★★

"Slim, stylish and with an orange-lit volume dial, the Tango Bar lives up to its name."

>> NETWORK TV TUNER

PCTV Broadway 2T

£151 The TV tuner to trump all its competitors?

CONTACTS

Manufacturer: PCTV Systems
www.pctvsystems.com

REQUIREMENTS

Mac, iPhone, iPad or iPod touch,
Wi-Fi router, broadband connection
(for internet streaming)

PROS & CONS

- ⊕ Easy initial setup
- ⊕ Streams over the web
- ⊖ Internet access setup tricky
- ⊖ No programme guide

VERDICT

★★★★★

"Setting up remote access is tricky, but otherwise it's a versatile TV system."

The choice of ways to watch live TV on your Mac, iPhone or iPad is quite bewildering. From the free TVCatchup service to systems costing over £200, each offers something different, but most have limitations. The PCTV's Broadway 2T is the most versatile option we've seen as it doesn't require you to rearrange your home setup or buy extra kit. You'll need to plug it directly into your TV aerial, but it'll talk wirelessly to your router, so the two don't need to be in the same place.

Setting it up is a breeze; it's all done in a web browser on your Mac or iOS device. The steps are clear and easy to follow, and you'll be watching live TV in the browser in minutes. You can set how much network bandwidth it uses, too. The picture quality is generally good, but there is some

A future firmware upgrade will enable the USB ports to attach hard or flash drives.

pixellation, even with the quality setting at its highest. There's no electronic programme guide, either.

Two devices can watch different channels simultaneously, thanks to the dual DVB-T tuner, and there are also composite, RCA and S-video inputs to which you can attach a set-top box or other media player. Some of these can be controlled from your computer or iOS device using the included infrared system. The

quality's never going to be great through these inputs, but unless you're going to be watching it on a vast screen, it's perfectly watchable.

The Broadway 2T can stream live TV over the internet, without your home Mac needing to be running, so you can watch TV anywhere you can get online. There are instructions to follow, but be warned: it's tricky unless you know what you're doing.

Laurence Cable



>> WIRELESS NETWORK EXTENDER

Linksys RE1000

£77 Enhance the range and reception of your Wi-Fi

CONTACTS

Manufacturer: Cisco
www.linksysbycisco.com

SPECIFICATIONS

Compatible networks: 2.4GHz, 802.11b/g/n **Supported encryption:** WPA2 and WEP
Dimensions: 125x92x33mm
Weight: 280g

PROS & CONS

- ⊕ Quick, uncomplicated setup
- ⊕ Vertical or flat placement
- ⊖ Poor aid to optimise position
- ⊖ Only extends 2.4GHz networks

VERDICT

★★★★★

"Straightforward to set up. Use OS X's built-in tools to check it's in the best spot."

Wi-Fi's great convenience is not having to lay metres of cable to set up a network. However, it only reaches so far before the signal falls off. One way to remedy that is to deploy a network extender to carry the signal further and maintain its strength.

The bundled app (downloadable for MacBook Air) scans for the unit, then shows Wi-Fi networks it can see. After specifying the network and its password, you move the unit to a spot away from your router and towards the area of weak reception, but where a good connection is possible.

Click 'Next' in the app and it shows up to five bars representing the connection quality. Our initial location offered little improvement, so we moved the RE1000 further towards the router. However, there's no simple

refresh in the app. We had to perform a hardware reset and repeat the process, which, luckily, takes just a few minutes. The sweet spot we found gave a four-bar connection between the extender and the router, and boosted the poorest location's transmission rate from 20Mbps to a stable 78Mbps.

Consider the quantity of traffic you want to send to a device at one time.

The RE1000 only extends 2.4GHz networks, which is fine for basic tasks and limited streaming, but it's a bottleneck if you plan to back up to a Time Capsule while streaming high-definition video from an iTunes library elsewhere on your network.

A 10/100 Ethernet port allows you to situate a networkable printer away from your router. However, there isn't a port to network a USB printer.

Alan Stonebridge



The RE1000 can be plugged straight into a wall socket or laid flat and powered via a figure-8 cable.

A versatile lens, plenty of controls and decent image quality makes the SX150 IS a good all-rounder.

Photography: Joe Branstons



>> COMPACT CAMERA

Canon PowerShot SX150 IS

£199 Automated and manual controls plus a 12x zoom lens: what more could you want for £199?

The new PowerShot SX150 IS, which replaces the SX130 IS, has plenty to offer the aspiring photographer. It sports the 12x zoom lens, with Intelligent IS (stabilisation) and the same 28-336mm equivalent cover of its predecessor. This is coupled with a CCD sensor that has been given a 2MP boost to 14.1-million effective pixels. There's also 720p video.

Perhaps even more attractive though, is the combination of automatic modes for novice users, including Smart Auto and Easy, as well as program aperture priority, shutter priority and manual (PASM) modes for more experienced snappers. One disappointment, however, is that the SX150 IS only allows images to be saved as JPEGs and not raw files.

Despite its largely plastic construction, the SX150 IS feels well made. It's not the smallest compact, but it slips into a coat pocket and is comfortable to hold. Power is supplied by two AA-sized batteries. On the one hand this is helpful because these batteries are universally available. But alkaline cells lack staying power and we captured fewer than the quoted 110 images using one set. It's worth seeking out NiMH cells for longevity as they push the life to 320 images.

"It's not the smallest compact out there, but it slips into a coat pocket and is comfortable to hold"

The SX150 IS's controls are large and well placed, with the combined command wheel/four-way control pad providing quick access to the majority of camera functions. It's simple to use, but it's easy to accidentally press one of the shortcut buttons as you're rotating the wheel with your thumb.

The best images are captured when sensitivity is kept within the ISO 100-400 range; image quality drops noticeably when the maximum setting, ISO 1600, is used. However, noise is generally well controlled and images have a respectable amount of detail. The image stabilisation also puts in a good performance.

On the whole, images from the SX150 IS are of high quality and have punchy colour and contrast.

Angela Nicholson

CONTACTS

Manufacturer: Canon
www.canon.co.uk

SPECIFICATIONS

Resolution: 14.1m pixels
Lens: 5-60mm (35mm equiv: 28-336mm) f/3.4-5.6 **Cards:** SD/SDHC/SDXC **Dimensions:** 113.3x73.2x45.8mm **Weight:** 306g

PROS & CONS

- ⊕ Manual and automated controls
- ⊕ Versatile 12x zoom range
- ⊕ Pleasant, punchy images
- ⊖ No raw mode, only JPEG images

VERDICT

★★★★★

"Provides both automated options for beginners as well as manual control."

01



Words: Ian Osborne

>>KEYBOARD CASE

Adonit Writer Keyboard Case for iPad 2

£90 www.adonit.net

01 This battery-powered Bluetooth keyboard case holds the iPad 2 securely, but the soft plastic housing doesn't feel robust. The keyboard has a beautiful brushed-aluminium finish, but the case doesn't close very well, with the keyboard stopping the cover lying flat. It's not very comfortable to type on either. The keyboard's small size is inevitable, but the tiny, off-centre space bar and a right-shift the same size as a standard key make for a lot of mistakes.

VERDICT

★★★★★

"There's a lot to like here, but some significant flaws too."

>>KEYBOARD CASE

Accuratus iMage for iPad 2

£70 www.ceratech.co.uk

02 This faux leather Bluetooth keyboard case has a magnetic clasp. You can remove the keyboard section, meaning it doesn't have to be directly in front of the screen as you type, and you can also use the case without the keyboard. There's no choice of viewing angle. The lip at the foot of the keyboard is a comfortable wrist rest, but until you're used to it you can't help expect a trackpad in the middle. It's reasonably comfortable to type on, despite the off-centre space bar and flat keys.

VERDICT

★★★★★

"A laudable but imperfect iPad keyboard case."

02



04



>>TRAVEL SPEAKERS

FeONIC Soundbug2

£150 www.soundbug2.com

03 Soundbug2 is designed to turn any resonant surface into flat panel speakers. After connecting to your Mac or iOS device through Bluetooth, you place the rechargeable palm-sized units up to five metres apart on a table, shelf or other suitable location for stereo sound. Trouble is, it isn't a very good stereo sound. We tried it on a variety of surfaces, but they all sounded dreadful. Audio reproduction lacked depth, had almost no shape and, at the top end of the range (including vocals), sounded tinny. Buzzing distortion is frequent and the sound stream patchy.

VERDICT

★★★★★

"Embarrassingly poor and shocking value at that price."

>>USB WEB DONGLE

Muzee iGD

ETBA en.muzee.net

04 Muzee iGD is essentially an app that runs on a USB dongle. It gives access to a range of online media and entertainment, including (they state - we haven't counted them all) 20,000 radio stations, 5,000 internet TV channels, 10,000 news sources, 100,000 ebooks and more. It's all material you could've sourced yourself without buying it, but would you? Having everything under one umbrella is useful, especially for your non-technical parent who got your old Mac last time you upgraded. Unfortunately its browser is slow and clunky, making navigating through the material much less fun than it should be.

VERDICT

★★★★★

"A great idea, but not well executed. Needs more speed."

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>> WEBCAM TOOL

Ecamm iGlasses 3



\$20 (£13) A revolution for the webcam

KEY INFO

Developer: Ecamm Network
www.ecamm.com

REQUIREMENTS

A webcam, Mac OS X 10.6 or later

PROS & CONS

- ⊕ Versatile adjustment tools
- ⊕ Great fun effects
- ⊕ Integrates well with webcam apps
- ⊖ Won't work in Rosetta apps

VERDICT

★★★★★

"iGlasses 3 is powerful, versatile, fun and recommended."

This is a complete (and long-awaited) rewrite of Ecamm's popular webcam enhancer.

Previous versions were plug-ins that inserted themselves into compatible webcam apps, but the new release appears as a camera choice in pretty much any webcam app. Just select 'iGlasses' as your video source to manage a feed from your regular camera. If you have more than one, you can select your source from within the *iGlasses* window. It also works in many websites with cam chat options, such as Google Talk and Facebook video. *iGlasses 3* is Intel 32- and 64-bit compatible, but it no longer works in applications running under Rosetta.

From the settings screen (now a modern, HUD-style window), you can adjust factors such as exposure,



iGlasses 3 boasts more than fifty crazy effects, including this fun Comic Book filter.

white balance, saturation, contrast and gamma. It's great for getting the most from your webcam under poor lighting conditions, and customised settings can be saved as presets for later use. You can close the *iGlasses* window while it's active, and reopen using a menu bar icon; it's never in the way when it's not needed. Over 50 *Photo Booth*-style effects distort or customise your video in a variety of

ways, and you can even share media by dragging it into *iGlasses*, replacing your camera feed.

The filters and media sharing are fun, but where *iGlasses 3* really shows its worth is in its image-adjustment facilities. Your house is unlikely to be blessed with pro-level studio lighting, but this app can do much to correct a badly lit video feed.

Ian Osborne

>> ACCOUNTING/TIMESHEET APP

NCH Business Essentials Suite

£70 Make life easier, not more complicated

KEY INFO

Developer: NCH Software
www.nchsoftware.com

REQUIREMENTS

OS: OS X 10.2 or higher

PROS & CONS

- ⊕ Plenty of features
- ⊕ Good invoice generator
- ⊖ Too complex for small businesses
- ⊖ Timesheet app almost unusable

VERDICT

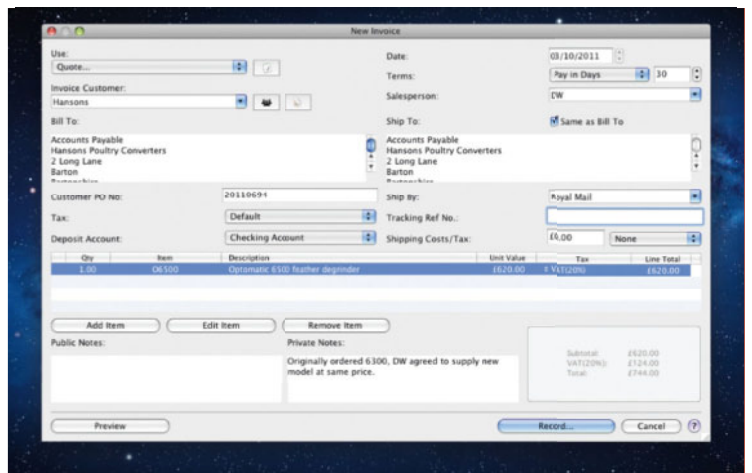
★★★☆☆

"A handful of nice features don't make up for the awkward operation."

NCH's suite offers another set of tools to help you manage your accounts, produce invoices, and suchlike.

There are features aplenty, but that doesn't translate into ease of use. For example, in the *HourGuard* timesheet application you create tasks and clients, and assign billing rates to each. Then, after recording the periods spent on the different tasks and allocating them to clients, you can see the total billable to an individual client.

But you can't use the same task across clients. If you do research work for six companies, charging them the same rate, you have to create six separate 'research' tasks before you can start recording.



Express Invoice is both powerful and straightforward to use - it's the best of the bunch.

That's one irritant in *HourGuard*. Another is that the application rounds billed amounts down to the nearest pound. Another is that the preference for currency display is, bluntly, broken: changing from '\$18' to '\$18.00' reduces a £75 bill to a 75p one! And yet another irritant is that there's no help to explain any of this.

The *Express Accounts* application is full-featured, yet most likely overkill

for the sole trader: it belongs in an accounting department, and is not easy to get into.

The *Express Invoice* app is nifty if you need to create a lot of invoices, and probably the only app here that we'd consider using in real life. And with that and the price tag in mind, it's difficult to agree that the *Business Essentials Suite* lives up to its name.

Barnaby Page

>>RETRO IMAGE EDITOR

Analog

£5.49 (introductory price, £14 thereafter) The one-click route to giving your snaps a retro look

You can barely open a browser these days without stumbling onto a retro-styled snap. It's not that the world has suddenly woken up to the fact that we can scan our old, faded photos from the 70s and early 80s; more that a raft of iPhone apps now makes it extremely easy to give your images an old-school feel.

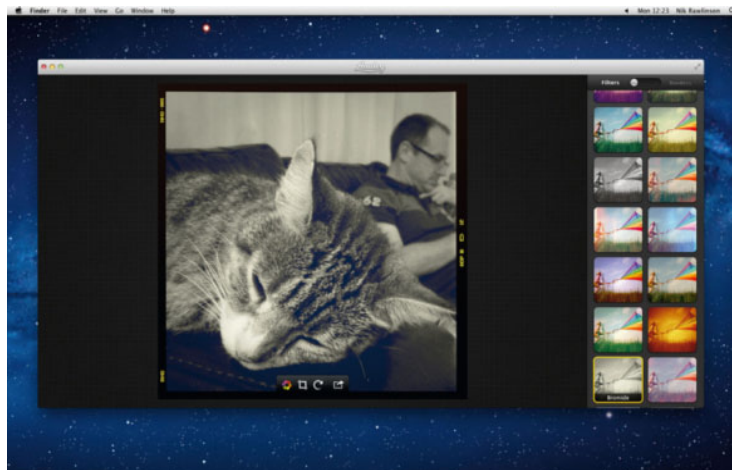
Digital cameras have as many negatives as they do positives. While the images digital photography captures may be as accurate in 100 years as they are today, they don't have anywhere near the character and soul of an analogue snap, which you can date through its imperfections. Dig out an old family photo and the chances are if it's knocking on 20 years or more the colours will have faded unequally, and you won't need misty eyes – the image will be misty and soft already.

Analog recaptures the wonder of old, decaying photos in much the same style as *Instagram*, the iPhone app that brought the craze to the

"It's a beautiful app and a joy to use, but the real genius is the hidden random nature in which it applies its effects"

masses. Drag an image into its window, open one from the menu, or right-click a photo in the *Finder* and send it straight to *Analog*. Now you can apply its various preset distortions to mess with the image colours and sharpness, and give it a border to mimic torn paper, Polaroid frames and film, among others.

It's more intelligent than it sounds, though, as all of your edits are non-destructive. The image inside *Analog* is a copy of the original and the default save action is to ask for a new name, rather than to save that over the top of your existing file. Even when you've applied a border you can still use the crop tool to change the composition of your image. Do this and the border will temporarily



Analog reproduces the look of old-school photography, adding imperfections to the image.

disappear to reveal the complete picture, with drag handles for re-positioning each edge. You can either do this free-form or constrain the results to set ratios of 4:3, 16:9 or square. As soon as you click the tick to accept the crop, it's dropped straight back into the border.

As with all Realmac Software releases, it's clear that as much

predictability and so the app is careful not to overdo the results.

Once you're happy with the look of your image, you can share it by posting it to Facebook, Flickr or Tumblr, or send it via *Mail*.

Analog is great fun, and if you want to develop a distinctive style for a blog or photo book, it's a very quick and easy way to achieve what would be time-consuming in *Photoshop*, and impossible in *iPhoto* without a plug-in. Our only concern at this point is whether the choice of 20 effects and 14 borders is enough. Should third-party developers be given the opportunity to create their own effects and borders, either for sale or to offer free, that would greatly enhance its lasting appeal.

Nik Rawlinson

KEY INFO

Developer: Realmac Software
<http://realmacsoftware.com>

REQUIREMENTS

OS: OS X 10.6.8 or later
Processor: 64-bit

PROS & CONS

- + Easy to use
- + Randomised images
- + Great fun
- + Quick results
- + Potential long-lasting appeal
- Limited choice of effects

VERDICT

★★★★★

"Analog is a neat, quick way to apply some quirky effects to your images, but we'd like a wider selection on offer."

When you've finished adding effects, the built-in tools make short work of uploading your pictures to various social networks.



>>FINDER ADD-ON

Default Folder X 4.4.6

£25 A Finder add-on that's so much more

KEY INFO

Developer: St Clair Software
http://stclairsoft.com

REQUIREMENTS

OS: OS X 10.5 or later

Processor: PowerPC or Intel Mac

PROS & CONS

- Now Lion-compatible
- Saves time opening/saving files
- Customisable shortcuts
- Good file previews in Open dialog

VERDICT

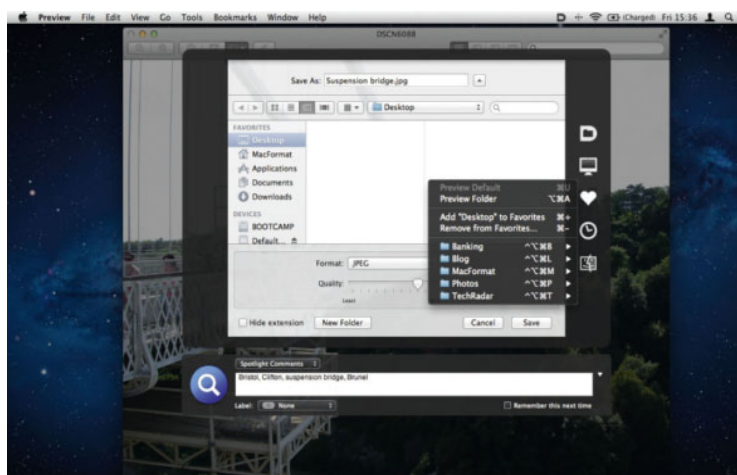
★★★★★

"Even if you only use a few of its features, it can be a huge time-saver."

We've called *Default Folder X* a *Finder* add-on, but this term does it a disservice: it's the *Finder* add-on to beat all *Finder* add-ons and saves you huge amounts of time. Recent updates have seen a raft of improvements, so it's now Lion-ready and works in most apps.

Default Folder X adds a swathe of useful options to the dialogs that appear when you open or save any document. If, for example, you save all the work you do in *Pages* into a specific folder and all the photos you edit in *Preview* in another, you can set app-specific defaults for which folder appears in the Save dialog.

There's much more to it besides, including the ability to add a selection



Add your favourite folders to Default Folder X and jump straight to them with shortcuts.

of favourite folders to its drop-down menus, click any open *Finder* window to save to it, or set up keyboard shortcuts to jump to specific folders in dialog windows. When you're saving files, there's an extra pane to add Spotlight comments or metadata.

In the Open dialog, the comments pane is replaced by one giving added information about the file you've selected: simply preview it in a

QuickLook-esque window, see its vital information or alter the permissions.

The only annoyance is that if you bring up an Open or Save dialog in a window that extends below the screen, there's not enough space to accommodate all of *Default Folder X*. Despite this, it's a hugely powerful package, which is worth the money even if you don't use all its features.

Laurence Cable

>>WEBSITE EDITOR

MacRabbit Espresso 2.0

\$79 (£50) MacRabbit's editor finally hits 2.0

KEY INFO

Developer: MacRabbit
http://macrabbit.com/espresso

REQUIREMENTS

OS: OS X 10.6.8

PROS & CONS

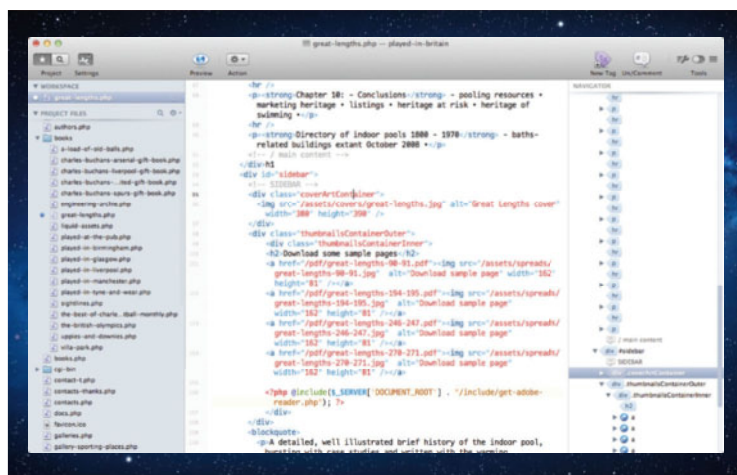
- Clean, efficient UI
- CSSEdit integration
- Strong coding tools
- Weak local preview/publishing

VERDICT

★★★★★

"A decent update and a fine tool for designers, but with some niggles."

Web-design tool *Espresso* 2.0 has been a long time in coming, and it ticks many of the right boxes. The interface is clear and usable, making it simple to create, edit and navigate HTML, PHP and CSS files. The inclusion of components from TEA and Zen Coding speeds up your work; the former makes it a cinch to wrap selections or lines in tags, and the latter – once learned – enables you to create large chunks of mark-up by expanding abbreviations. The main boon, however, is the integration of an updated CSSEdit, enabling you to preview and edit styles, seeing how changes affect the live site. (This comes at the expense of CSSEdit as a standalone application.)



MacRabbit's Espresso is a sleek, lightweight application for coding up websites.

On the flip side, *Espresso*'s file management and publishing, while updated, remains weak, fiddly and not as intuitive as *Coda*'s, the inability to link projects to previews on your Mac's server is baffling, and the lack of quick shortcuts to HTML tags is annoying.

One of these days we're going to lock the web-design app developers in a room and bang their heads together until they combine their

efforts into one fantastic app. Like *Coda* and *BEdit*, *Espresso* is good, and it's so close to great we could scream. By way of comparison, it's less efficient but more user-friendly than *BEdit*, and less powerful than *Coda*, but with superior CSS tools and code navigation. There's no reason to switch from another product, but for newcomers, it's worth consideration.

Craig Grannell

>> VIRTUALISATION SOFTWARE

VMware Fusion 4

£40 Another chance to run OS alternatives on your Mac – but can it beat arch-rival Parallels 7?

Ever since Apple switched to Intel processors, it's been relatively easy to run 'guest' operating systems such as Windows and Linux on your Mac, as you'll have discovered with our review and tutorial on *Parallels 7* in the November issue of *MacFormat*.

Much as we like *Parallels 7* (we gave it four stars), it doesn't have virtualisation software all to its own. Arch-rival VMware has not only been making virtualisation software for far longer than Parallels, it can claim a staggering 96% usage rate among Fortune 1000 US companies. So they're clearly doing something right.

VMware Fusion 4 then comes with an impeccable pedigree and packs in plenty of highlights: over 90 new features; a more Mac-like look and feel; improved 3D graphics performance; and the ability to run another version of OS X Lion as a guest OS inside an existing install – something that's ideal for iOS and Mac OS X developers who want to try out



Windows 7 is here seen running in VMware Fusion's seamless Unity mode.

can choose to make available more RAM, more CPU power, and so on – using a *System Preferences*-style menu (although you can only carry out certain of these while the virtual machine is powered down). You'll also be asked to install *VMware Tools*, which enables the guest OS to recognise and communicate with the

Windows applications appear seamlessly in OS X – works well with some caveats: there is noticeable desktop corruption around Windows' windows, especially when running applications like *Windows Media Player*. On our test desktop Mac mini (2.4GHz Intel Core 2 Duo, 8GB RAM, NVIDIA GeForce 320M graphics card with 256MB of RAM), *VMware* also feels noticeably slower than *Parallels 7* on the same hardware, something backed by a Windows Experience Index score of just 4.1. As with *Parallels 7* – nay, any virtualisation software – we would recommend rebooting into Windows 7 using a separate Boot Camp partition for serious 3D game play.

Rob Mead-Green

“VMware Fusion 4 then comes with an impeccable pedigree and packs in plenty of highlights, including over 90 new features”

their applications without messing up their main install. Other *VMware Fusion 4* goodies include the ability to harness Windows-only hardware so that it can be used with your Mac, plus 12-months' free *McAfee VirusScan Plus* protection. *Parallels 7*, by contrast, only offers a three-month trial of the software.

Up and running

Once you've got *VMware Fusion 4* up and running on your Mac, adding guest operating systems is pretty straightforward: you simply choose File > New from the *VMware Fusion 4* menu bar, choose the location of your guest OS's installer, then install it.

Having installed each guest OS, *VMware* prompts you to tweak each virtual machine's settings – so you

hardware features of your Mac, such as Wi-Fi and Bluetooth functions.

Most of this is pretty straightforward, but you may experience a few hiccups along the way: we had no problems with Windows 7 or Vista for example, but some Linux distros we tried stalled, requiring reinstallation – as did adding *VMware Tools* or *McAfee's* anti-virus in some cases. *VMware Fusion's* Plain-Jane user interface is functional rather than pretty, especially when compared to *Parallels 7's* polished UI. The virtual machines list, with its snapshot of each OS, also takes up a lot of unnecessary screen space compared to *Parallels 7's* much more sensibly restrained alternative.

Running Windows 7 in *VMware Fusion 4's* Unity mode – where

KEY INFO

Developer: VMware
www.vmware.com/uk

REQUIREMENTS

OS: OS X 10.6.7 or later **Processor:** Intel Core 2 Duo, Xeon, i3, i5 or i7 processor **RAM:** 2GB (4GB or more recommended) **Disk space:** 750MB and at least 5GB for each virtual machine **Video:** Nvidia 8600M/ATI 2600 graphics or better for Windows Aero support **Other:** Operating system software (disk or disk image) for virtual machines

PROS & CONS

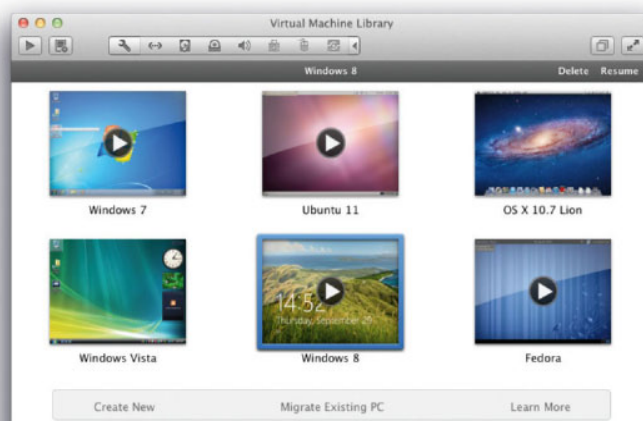
- + Support for over 200 guest OSes
- + Simple to set up and use
- + Install Lion as a virtual machine
- Unity UI not as good as Parallels'
- Buggy in places
- Parallels 7 faster in places

VERDICT

★★★★★

“VMware Fusion is worth a look. However we prefer Parallels 7 for its polish and nippy performance.”

The Virtual Machine Library enables you to see all the guest operating systems on your Mac at a glance.



>> VIRTUAL HOSTS MANAGER

VirtualHostX 3.0



£23 Host and share websites on your Mac

KEY INFO

Developer: clickontyler
<http://clickontyler.com/virtualhostx>

REQUIREMENTS

OS: OS X 10.6.8+

PROS & CONS

- ⊕ Extremely simple to use
- ⊕ New backup/restore feature
- ⊕ Share online with Lift Off
- ⊕ Works with MAMP and XAMPP

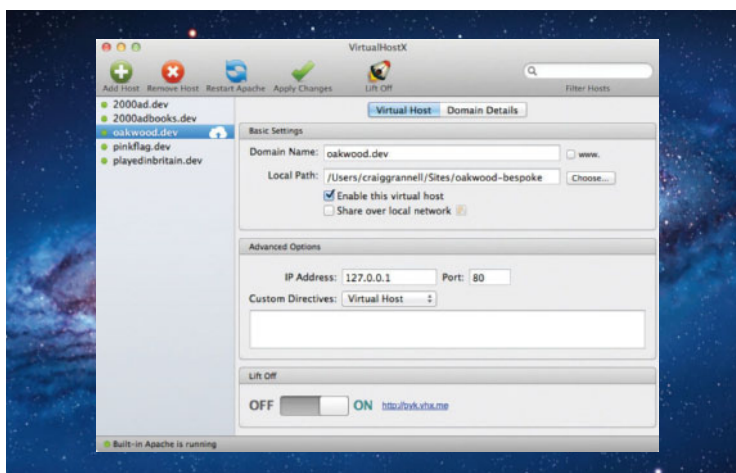
VERDICT

★★★★★

"An indispensable tool for web designers gets an impressive upgrade."

OS X's built-in web server is a boon for web designers, but it's initially restricted to hosting a single site. If you've the time, skill and inclination, you can mess around with files to manage virtual hosts, but it's less hassle to have *VirtualHostX* do the work for you. To add a host, you click Add Host, define a domain name (like 'macformat.dev'), choose a local path (such as to a folder within ~/Sites) and click Apply Changes. You can then access the site from your browser, which is particularly handy for dynamic websites that go beyond HTML. *VirtualHostX* also enables you to share the entire domain over the local network.

This major upgrade brings with it several new features, the best of which is Lift Off, which enables you, while *VirtualHostX* is open, to share a



VirtualHostX goes beyond OS X's web server and makes hosting and sharing multiple sites easy.

development site online, via a randomised vhx.me short URL. The service costs extra – £6.67 monthly or 66p per 24-hour credit – but it's great value for designers who don't have a staging server. Elsewhere, the update introduces a robust web server configuration backup and restore feature in its preferences, along with a 'domain details' panel where you can stash things like FTP usernames and passwords. This is currently basic

and not secure, but the developer assures us superior password management will arrive with version 3.2. And in any case, that quirk is hardly a deal-breaker – for under an hour's rates for most web developers, the system potentially provides many hours of saved time.

This, combined with its inherent ease of use, makes *VirtualHostX 3.0* an essential tool in any web kit.

Craig Grannell

>> DESKTOP WEB BROWSER

Desktopr

£2.49 Browse the web from your desktop

Developer: Miroslav Podorsky URL: www.sandwichlab.net



This is a bit of a weird one, because it works a lot better in theory than in practice. The idea is sound enough: build a list of websites that you frequent, such as Facebook or Twitter, and have them run on your desktop. In idle moments, a site is always ready and waiting, and you can define how long *Desktopr* waits before it moves on to your next item (or just choose one and have it permanently displayed).

The problem is it just doesn't work. Technically, it's fine (bar the fiddly jog wheel for defining durations). The browser renders much as you'd expect it to, and you can optionally disable plug-

ins, set YouTube videos to play in full-screen, and determine whether browser links are active or not. Practically, though, it's a bit of a mess. Tapping [⌘]+[F3] to show your desktop clears the *Desktopr* window as well, so the only way to rapidly access your web pages is to hide your apps. Because of this, *Desktopr* saps rather than increases efficiency, and had us quickly moving back to our dedicated clients and standard web browsers.

Craig Grannell

VERDICT

★★★☆☆

"Competently programmed, if resource-hungry, but the idea just doesn't work."

>> SHORTCUTS MANAGER

Shortcuts 1.3

£2.99 Access apps and folders from the keyboard

Developer: Nulana Ltd URL: www.nulana.com



OS X is increasingly pointer-reliant, with Launchpad and Mission Control not enabling keyboard access to individual items. But for anyone wedded to the keyboard, it's a hassle and a waste of time to move a hand to a mouse or trackpad to launch an app or folder.

If that's you, *Shortcuts* may well appeal. The interface is straightforward, broken down into Applications, System, Websites, Open File/Folder, AppleScript, and Shell Script. In each case, you can set an item and define a shortcut for it. If the shortcut's already in use, *Shortcuts* will warn you and provide the option to override it. In use the app is resource-light

and well-behaved, but it also feels a little underdeveloped. Sort order is automated by enabled/disabled shortcuts and then by action within those groups. Also, the free *Spark* offers a more flexible system (including actions on launch and quit). Still, *Spark*, while OS X Lion-friendly, was seemingly abandoned a few years ago, and *Shortcuts* has the potential to be a worthy successor. So it comes recommended if your needs aren't too complicated.

Craig Grannell

VERDICT

★★★★★

"A simple, reliable keyboard-based launcher, but not yet a match for Spark."



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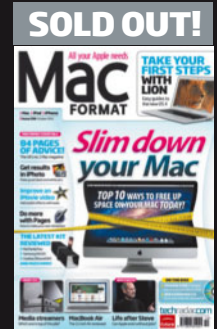
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FIFA Soccer 12



\$40 (£25) EA's mighty FIFA franchise finally makes it onto our Macs and it really is a beautiful game

KEY INFO

Developer: Transgaming/EA
www.gametreeonline.com

REQUIREMENTS

OS: OS X 10.6.8 or higher
Processor: Intel Core 2 Duo
RAM: 4GB **Video:** ATI HD2600 or NVIDIA GeForce 9400M or greater, with 256MB VRAM **Disk space:** 6.8GB **Other:** Won't run on Intel GMA950 or X3100 class video cards

PROS & CONS

- ⊕ Player and management options
- ⊕ Superb player and stadium models
- ⊕ Realistic physical impact
- ⊕ Fluid intelligent play
- ⊕ Online features
- ⊖ Too many menus

VERDICT

★★★★★

"Daunting for new players, but a game that delivers in almost every respect."

Create your own virtual pro from scratch then set him loose across the various FIFA play modes.

We've still a way to go before Mac computers become the platform of choice for serious gamers. But certainly the debut of EA's mighty *FIFA Soccer* franchise on Apple machines signals a fairly substantial step in the right direction.

In fact, Apple Mac owners have two reasons to celebrate this release, as *FIFA 12* not only represents the game's first appearance on OS X, but it also happens to be the best *FIFA* game yet. If you haven't played any of EA's recent *FIFA* iterations, you'll be astonished by just how much the game has grown and improved.

Pass and move

FIFA 12 is the most accurate, atmospheric and playable football simulation available. Among the features there are: quick matches, leagues and tournaments; careers that cover the progression of an individual player; careers covering the manager's role in handling his team, their relationship with the press, squad changes, tactics, transfer windows and wage negotiations; and crucially, there's the online offering that enables players to participate in tournaments and seasons online. The latter includes a new system of matchmaking that more accurately pairs teams of similar abilities and players whose control options are more evenly aligned.



David James faces an early challenge in Bristol City's goalmouth. It's only the Gas attacking though.

One major criticism we have of *FIFA 12*, but one that's relevant only to newcomers to the franchise, is that very little effort has been made to explain what the hell is going on and where to begin. Every single play option, menu and sub-menu is given roughly equal billing, so finding the option you want, or even attempting to jump straight into a quick one-off match, isn't easy to begin with. In addition there's very little explanation of individual features – for example, there's only a cursory description of

point, after a particularly brutal tackle our player was left spinning on the crown of his head for a few seconds. Highly amusing, but not something you'd normally see at Anfield.

There's a new system of tactical defending too, which while taking a little getting used to allows for enhanced opportunities for influencing your opponents when you're off the ball. Rather than simply homing in on the player with the ball, you can now use positioning, interceptions and tackling to place

"FIFA 12 not only represents the game's first appearance on the Mac, but it also happens to be the best FIFA game yet"

the differences between player, manager, and player/manager career modes – leaving newbies at a loss as to where to begin.

A lot has been made of the game's new Impact Engine, a form of physics modelling that gives rise to more realistic physical interaction between the players. And indeed, while the engine's impact on the game won't be of interest while you're in the heat of battle, its effects are subtly pleasing, giving rise to a more convincing game of footy in which players interact much as they would in the real world. However, it's not flawless – at one

pressure on the opposing team and force them into making errors.

Players can also use precision dribbling when in possession in order to retain possession, and more importantly give them more time on the ball to plan that all-important cross, or shot at goal.

The list of features, tweaks and improvements stretches further than this single page will allow; needless to say, *FIFA 12* is the definitive footy experience right now, and its appearance on the Mac is something to be robustly celebrated.

Andy Dyer



>>PLATFORMER

Psychonauts

£5.99 Adventure gaming legend Tim Schafer comes up with a surreal and delightful platformer

There are no real guarantees when it comes to the quality of any given video-game project. But when certain names are attached you can be fairly sure the results will be interesting. And so it proves with *Psychonauts*, an intriguing platformer from the mind of Double Fine Productions' Tim Schafer, a man previously involved in such illustrious titles as *The Secret of Monkey Island*, *Full Throttle* and *Grim Fandango*.

Quite why it's taken his 2005 platform adventure six years to come to the Mac is anyone's guess. But ultimately we should be grateful it has because – leaving aside for the moment a few irksome design and longevity issues – this is a rich and rewarding game. The world presented to you in *Psychonauts* is chock full of interesting and amusing characters, surreal environments and some truly inventive platforming challenges.

A different mad monk

The star of the show is Razputin, a young lad whose psychic powers lead him to join a summer camp where other gifted youngsters are in training to become psychonauts.

"Psychonauts are psychic special agents whose missions take place in other people's minds – it's a bit like Rugrats meets Inception"

Psychonauts are psychic special agents whose missions take place in other people's minds, so it's a bit like *Rugrats* meets *Inception* if you can imagine such a thing.

The adventure side of the game takes place at the summer camp and its surrounding environs as you trot around the place meeting and speaking to various colourful and intriguing characters. These people not only fill in plot details but also give instruction on how you can progress through the game, levelling up and eventually becoming a fully fledged psychonaut (in theory).



Psychonaut Razputin uses an old Jeep axle as a trapeze. Resourceful little chap, isn't he?

Nestled between these RPG-style explorations are levels in which you get to explore the inner workings of other characters' minds. And it's here that *Psychonauts* is at its most inventive. Each person's mind is visually and structurally designed to mirror their personality, so the ex-soldier Coach Oleander's psyche is littered with minefields, explosions and other military hardware. The buttoned-up Sasha Nein's mind, on the other hand is all clean lines and sterile environments; while Boyd –

makes up for the game being rather short. But it's also one of the game's flaws inasmuch as there's possibly a little too much collecting to be done and too much to think about. And good though the writing is, there is an over-abundance of dialogue that often threatens to interrupt the flow of the game.

So it's not without its problems. Nevertheless, *Psychonauts* verges on an essential purchase simply because it's so rare to find writing quite as good as this. And the attention to detail in turning characters' minds – complete with secrets, personality disorders and inner demons – into surreal and uniquely explorational levels is a delight to experience.

Andy Dyer

KEY INFO

Developer: Double Fine
www.steampowered.com

REQUIREMENTS

OS: OS X 10.6.8 or later
Processor: Intel Core Duo
RAM: 2GB **Video:** ATI X1600, NVIDIA 8600GT, Intel HD3000 or better card with at least 128MB VRAM **Disk space:** 4GB

PROS & CONS

- ⊕ Superb storytelling
- ⊕ Amusing characters
- ⊕ Fantastic scenery
- ⊕ Superb attention to detail
- ⊕ Inventive level design
- ⊖ Short, and too much collecting

VERDICT

★★★★★

"There are problems with the pacing, but this is still a unique and entertaining platformer as it stands."

The translucent characters you can see are figments of the imagination. Collect them all if you can.



>>POINT-AND-CLICK ADVENTURE

Trauma

£4.39 A stylish and intriguing adventure

KEY INFO

Developer: Krystian Majewski
www.traumagame.com

SPECIFICATIONS

OS: OS X 10.5.8 or later

Processor: Intel Core 2 Duo 2GHz

RAM: 2GB **Disk space:** 200MB

PROS & CONS

- ⊕ Rich evocative visuals
- ⊕ Intriguing story
- ⊕ Interconnected puzzles
- ⊖ Ambiguous ending

VERDICT

★★★★★

"More active drama than a game, but the storytelling is astonishing."

Trauma tells the story of a young woman who, following a car accident, finds herself in intensive care and experiences a series of dreams (or perhaps hallucinations) that, mingled with memories, reveal aspects of her past and the loss of her parents.

The easiest way to describe it would be as a point-and-click adventure. But that's not an entirely accurate description, as this is more about the visuals and the narrative than the puzzle solving.

From the hub screen, the player can access four dreams. These take the protagonist to four urban, yet slightly surreal locations where she has to explore the surroundings, discover various clues and unlock several endings. It's simple stuff, like learning the screen gesture to lift a



This crate has a familiar looking drain in it. Can you remember the gesture required?

heavy object, or noticing that the actions that worked on a particular object also work on a picture of that object elsewhere. If that sounds a little vague it's because we don't want to give away too much; *Trauma* is all about story and details.

What's amazing is the quality of the visuals, the standard of the writing,

and the sound design. Coupled with solid acting performances, this adds up to an amazingly assured piece of interactive filmmaking. The fact that there's no concrete conclusion to the story might annoy some, but for others it will just add to the intrigue. A cerebral piece of explorative drama.

Andy Dyer

>>PLATFORM PUZZLER

EDGE



£2.99 The iOS puzzler comes to your desktop

KEY INFO

Developer: Two Tribes Publishing
www.twotribes.com

REQUIREMENTS

OS: OS X 10.6.6 or later

Disk space: 79.9MB

PROS & CONS

- ⊕ Crisp, clean looks
- ⊕ Responsive controls
- ⊕ Expertly designed levels
- ⊖ Occasional confusion

VERDICT

★★★★★

"Packing some ingenious challenges, Edge really shouldn't be missed."

After thinking *EDGE* was perfect for touchscreen gaming on iOS devices, we have to admit it works even better on desktop Macs. Dragging your finger around the screen to make your little cube roll around the game's isometric 3D mazes seemed a perfectly sensible way of controlling things. But in reality, the precision needed to complete the levels accurately and at speed is more easily achieved using a keyboard.

If you haven't played the game before, you're in for a treat. The basic aim is to get your cube from the starting point to the exit and achieve as high a ranking as possible. You do this by rolling your cube around, but you can only climb walls that are one cube high. Any higher and you'll have to find another way around. There are



The levels can get quite complicated with switches activating whole new sections of walkways.

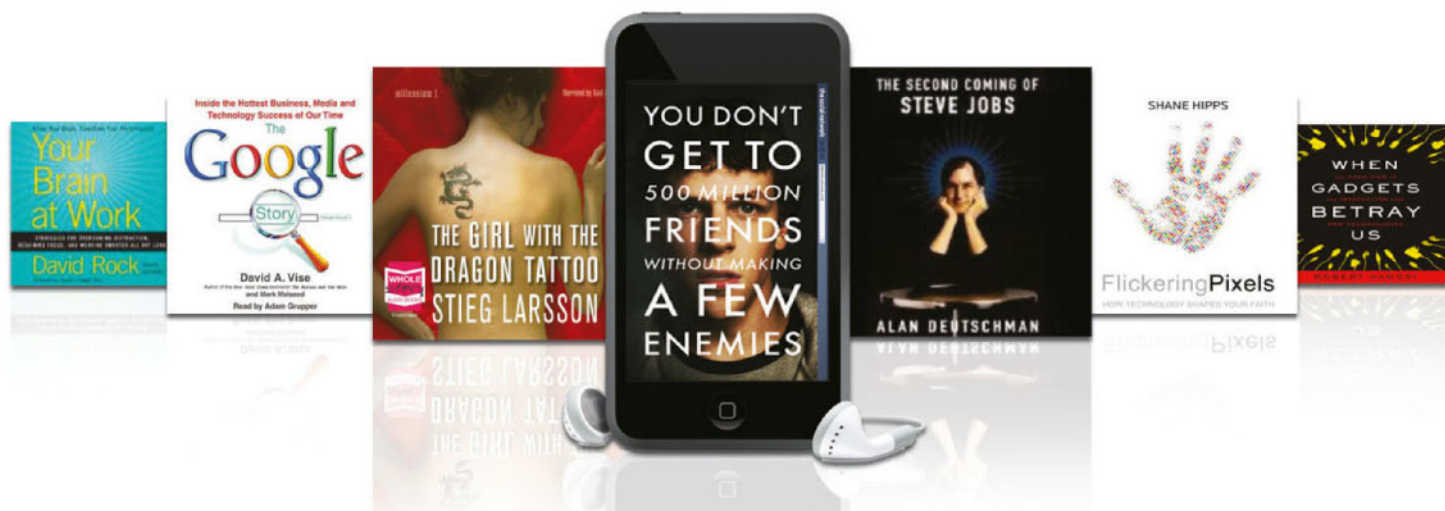
many elements that conspire to make you task more complicated. Some floor tiles collapse, there are moving walkways, and there are many switch-activated sections that alter the scenery in any number of ways.

In order to achieve a high rank you have to finish the level, but also do it quickly, efficiently and collecting as

many scattered prisms as you can find along the way. This gives *EDGE* enormous replay value as you keep going back to levels to race your own ghost, find a better route, go that bit quicker and raise your rank. If you haven't played the iOS versions to death, *EDGE* is an absolute must.

Andy Dyer

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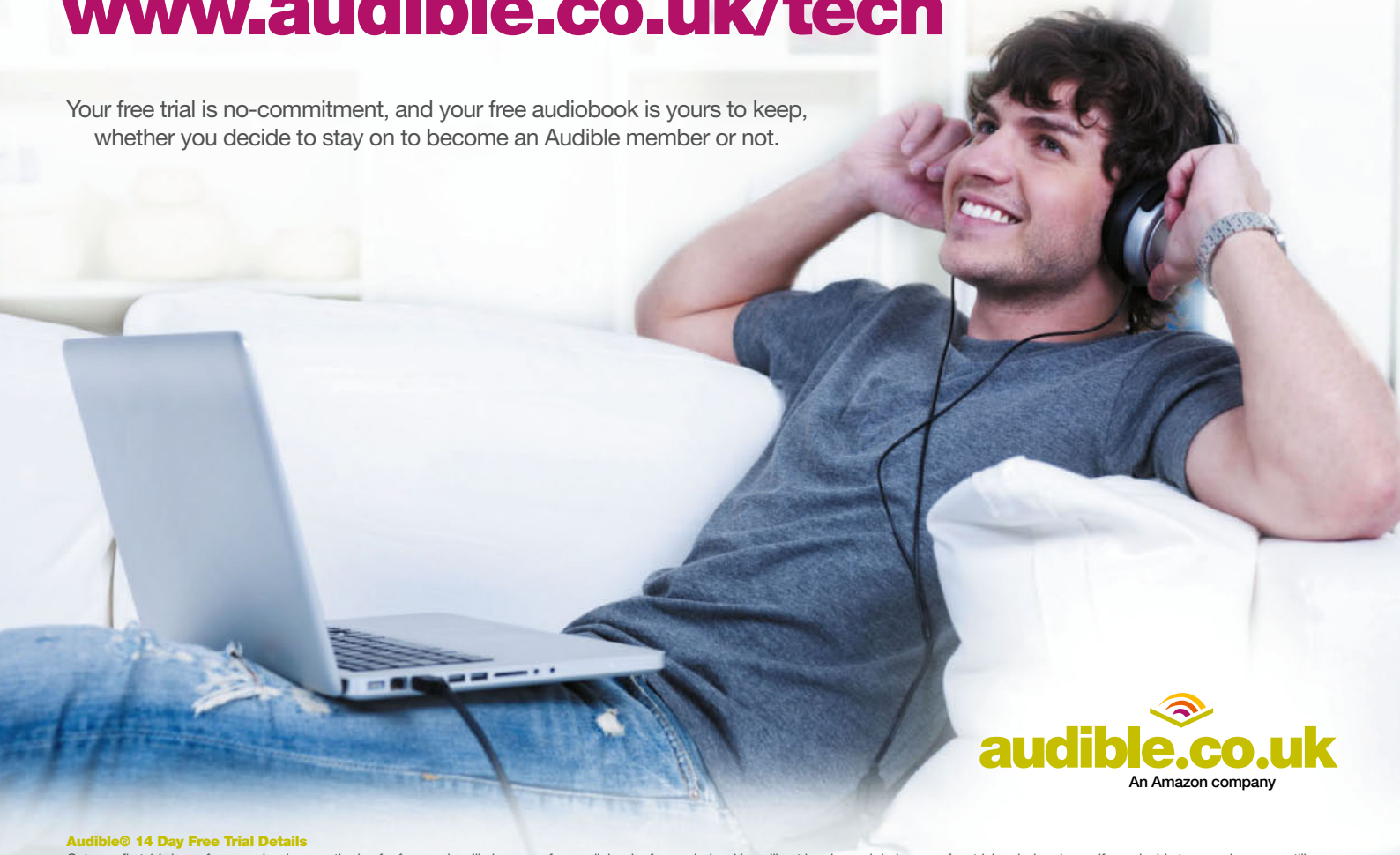


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World of Apps

Reviews by: Graham Barlow, Andy Dyer, Tim Hardwick, Alex Sorisi

>> THE BEST iOS APPS HERE



Whether you've got an iPhone, iPod touch or an iPad, this is the best place to come to discover great new iOS apps and get the latest tips!

> iPad > iPhone > iPod Touch

Mac
FORMAT

App of the
month
★★★★★

The Magic of Reality



Graham recommends:

"Richard Dawkins really rubs a lot of people up the wrong way, but I love his books and this is exactly what I'd expect from an iPad edition. It's packed with great videos illustrations and animations. In the app he explores the famous myths people have traditionally used to explain the world and then reveals the scientific explanation.

Price: £9.99 Version: 1.0 Works with: iPad



Must-have apps

It's all the apps your magical iOS device can't live without!

Facebook

£FREE Check your privacy settings!

Developer: Facebook, Inc Works with: iPad



Finally! While there's been an iPhone edition of the Facebook app out for what feels like forever, the iPad had been cruelly neglected

until now. Games, apps and chat are all supported. Initial versions were slow and buggy, but the app has already been updated and performance has improved.

Noteshelf

£2.99 Take notes, beautifully

Developer: Rama Krishna Works with: iPad



Thanks to apps like this one taking notes on your iPad with your finger is easy, but you can also use a stylus, like the JustMobile Alupen.

Noteshelf is our new favourite note-taking app. You can mix paper types, move things around and zoom, which makes it a more powerful app than many of its competitors.

Pixlr-o-matic

£FREE It's time to go retro

Developer: Autodesk Works with: iPad, iPhone, iPod touch



There are many apps that add retro touches to your photos, but not only is Pixlr-o-matic free, but it's also rather good. Just load

in a photo from your Camera Roll and let it transform it into a vintage image in a matter of seconds. You can add effects in combination for an even better look, too.

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- ▶ The latest essential apps and games
- ▶ New kit for iPhone, iPad & iPod touch
- ▶ Learn to use your device with our guides



>> TIMETABLE APP

London Bus Checker

£1.99 Will all your buses come at once? Find out quickly

Developer: FatAttitude **Version:** 1.0.1 **Works with:** iPhone, iPod touch



TFL, which oversees the majority of London's public transport network,

has a good mobile website, but *London Bus Checker* offers something extra. Zoom around a map of London to find your nearest stop (or the app will find one close to you), and then tap

the stop to see the live departures list from that location. You can filter the list to include only the buses you're interested in.

It's a little clunky but for a quick way of checking, it's not bad.

VERDICT

★★★★★

"Useful for London travellers, but it's not yet indispensable."

>> NEWS AGGREGATOR

Evri for iPad

£FREE A lovely-looking news aggregator

Developer: Evri, Inc. **Version:** 1.0.219 **Works with:** iPad, iOS 4.0 or later



You might yawn at the mention of another news aggregator, but this one's actually

interesting and simple to use. Rather than making you subscribe to individual RSS feeds, you search for topics that interest you, and it then pulls in related news stories on a newspaper-like layout. It's not

without its faults: the stunning looks are compromised by slow, jerky navigation, and the news isn't always up to date, but it's a gorgeous way to catch up on what's happening in the world.

VERDICT

★★★★★

"A lovely news app, perfect for browsing over breakfast."

>> MEDIA PLAYER

LOVEFiLM Player for iPad

£FREE Stream movies from your LOVEFiLM account

Developer: LOVEFiLM **Version:** 1.0 **Works with:** iPad, iOS 4.3 or later



Hooray! It's now possible to stream content from movie rental service LOVEFiLM

to your iPad. You need to have a LOVEFiLM subscription that includes streaming, and you can only watch over Wi-Fi.

Picture quality is excellent, and that it links to your existing

account is a big bonus. The drawback is that you're only allowed two streaming devices on your account, so if you already have, say, a PS3 and an internet TV, you'll have to disable one.

VERDICT

★★★★★

"Excellent picture quality, but there is a two-device limit."

>> AMENITY LOCATOR

Poynt

£FREE A local amenity finder that does that bit more

Developer: Poynt **Version:** 1.5.3 **Works with:** iPhone, iOS 3.1 or later



There are many apps to help find local restaurants, movies and businesses using

your iPhone, but *Poynt's* features particularly stand out. For example, it will find cinemas near you and provide listings for each, while lifting your phone to your ear automatically calls the place

you're looking at. Plus, you can save multiple locations. But because the app uses several search systems, including Thomson Local, Bing and toptable, you often get duplicate results.

VERDICT

★★★★★

"A useful all-in-one amenity finder with great features."

Apps round-up



Tim's guide to more great apps now available on iTunes store:

When the nights draw in and the temperature falls, there's nothing I like more than heading for the local cinema. But before I do, my first port of call is *Flixster* (**£FREE**, Jeffrey Grossman). Developed in conjunction with popular online movie resource Rotten Tomatoes,

this superb little app keeps me up to date with the latest box office listings as well as upcoming films and DVD releases. My favourite feature is its ability to use my location data and provide me with a list of nearby cinemas. From there I can read plot synopses, check show and run times, age ratings and cinema contact details - but that's not all. Integration with the Rotten Tomatoes database means I can just as easily learn about cast and crew, watch movie trailers, view photos,

read reviews and even add my own ratings once I've seen the film.

The other popular online movie database is IMDb, but no official app currently exists for it. For this reason I turn to *Movie Genie* (**69p**, Taylan Pince) which hijacks the IMDb database and enables me to search for any person or movie therein. That includes full access to biography, photos, and filmography.

Fancy yourself to be a movie trivia buff? Then you'll want to test your knowledge with a round or two of *Movie Quiz* (**69p**, FinBlade Ltd). Its slick multiple-choice interface challenges you to test your knowledge against the clock or at your own pace. Try it!



Type and talk wirelessly

Learn how to connect Bluetooth keyboards and headsets

» KEY INFO



DIFFICULTY:
Intermediate



TIME NEEDED:
15 minutes

WHAT YOU'LL NEED:

iPhone, iPad or iPod touch

There are so many accessories you can get for your iOS device, many of which connect using Bluetooth. They include keyboards, earpieces and even full speakers. We're going to show you how easy it is to set up and use a range of Bluetooth kit, so that you can enjoy your device to the full, all without a wire in sight.

The first thing to do is enable Bluetooth. Go into your device's *Settings* app, tap **General**, then Bluetooth and set the toggle to **ON**. You'll see Bluetooth's 'B' symbol appear in the top bar, greyed out, indicating that it's switched on, but no devices are connected. Read on for how to connect keyboards, earpieces and speakers.



Chat without an annoying wire in the way.

» HOW TO / Use keyboards, earpieces and speakers



01 Pairing mode

The first time you use a Bluetooth device with your iPhone, you need to pair the two. In this case, we're using a keyboard. Switch it on and make sure it's in pairing/discovery mode. Its instructions will show you how to do this. Keep the two devices close together.

02 Connect the keyboard

Now look at the **Bluetooth** screen on your iPhone. The Bluetooth device will appear in the list, with a **Not Paired** label next to it. Tap it, and the two will link up. You'll probably be asked to tap in a four-digit passcode on the keyboard, followed by [Enter].

03 Get typing!

With the keyboard connected, the Bluetooth logo in the top bar will change to a solid colour (this will either be blue or solid white). You're now ready to use it: go into an app that requires you to type, and get writing!



04 Earpieces

A Bluetooth earpiece is a great way for making hands-free calls. Pair it to your iPhone as in Steps 1 and 2. Some earpieces will add a battery level indicator to your device's top bar. Now, when a call comes in, you'll be able to answer it using the earpiece's controls.

05 In-call options

During a call, you can swap between the earpiece and your iPhone's built-in speaker and microphone. Use the top-right button on the in-call controls to switch between them. Some earpieces will have built-in volume controls, too. Hang up with a tap on the earpiece's button.

06 Listen to music

To play music from your iPhone, iPad or iPod touch through a Bluetooth device – be it a headset, pair of headphones or a set of speakers – it needs to support A2DP. Tap the AirPlay symbol next to the player controls and choose the Bluetooth device from the pop-up. ●

- ▶ The latest essential apps and games
- ▶ New kit for iPhone, iPad & iPod touch
- ▶ Learn to use your device with our guides



>> RACING

DrawRace 2 HD

£1.99 A racing game with no driving...

KEY INFO

Developer: Chillingo Ltd
Version: 1.03
Works with: iPad, iOS 3.2 or later

PROS & CONS

- ⊕ Looks good
- ⊕ Interesting twist
- ⊕ Loads of options and tracks
- ⊖ Frustrating at times

VERDICT

★★★★★

"DrawRace 2 HD is an addictive twist on the racing game."



DrawRace 2 HD is a peculiar beast. Each track is viewed top-down and the player has to trace the route of two laps around the track then sit back and watch the results play out. You would think that by removing the actual process of driving, the experience would be rendered tedious, but *DrawRace 2* is enormously enjoyable, and this is due to the fact the developers have built a great deal of complexity into this fairly simple premise.

As well as tracing the racing line through the corners, or drawing the most efficient route through chicanes, you have to dictate the speed of your vehicle. You do this by moving your finger to speed up or slow down your vehicle, trying to anticipate where the car might skid and lose valuable time.



It's not the most efficient route, perhaps, but it seems to be working well enough for us...

In addition, there are many different event types. Each of the five skill levels has 12 tracks, which fall into familiar categories such as rally driving, NASCAR style ovals, F1 and so on. The result is that the player has to adjust his technique according to the racing discipline and surface type. There's also a turbo button that can be used during

the actual races, which is another variable to be considered.

The result of all this is a compelling game, frustrating and addictive in equal measure. Were there fewer play options and less cars and tracks it might have been of limited interest, but this is a substantial game that dispels any doubts the player might initially have.

>> ACTION ADVENTURE

Another World

£2.99 A classic game that's aged well

KEY INFO

Developer: Bulkypix
Version: 1.2
Works with: iPhone, iPod touch, iPad, iOS 3.1.3 or later

PROS & CONS

- ⊕ Still looks good
- ⊕ Entertaining story
- ⊕ High-res mode
- ⊖ Extremely tough

VERDICT

★★★★★

"A satisfying and fascinating adventure."

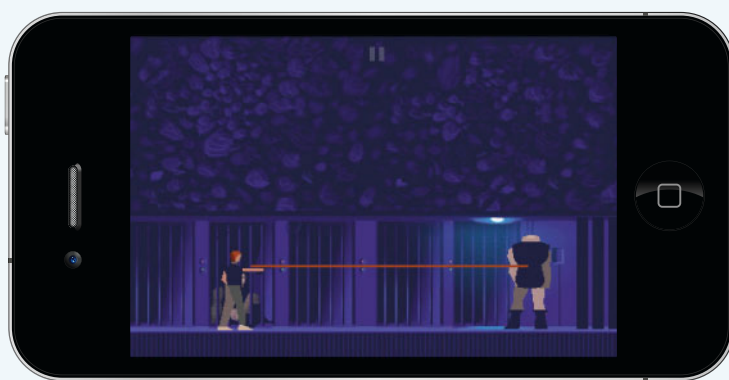


It's hard to believe this game first appeared on Amiga home computers 20 years ago. Not just

because the memory of it is still so vivid and fondly remembered, but because it has survived the passing of two decades rather well.

This is because its (at the time innovative) use of stylised visuals and cinematic cut scenes look very much at home on our iOS devices. What's more, you can swipe two fingers down the screen to switch between the original game's lower resolution settings and a higher-res version.

The story remains compelling too. Cool young physicist Lester Knight Chaykin (the Professor Brian Cox of his



Lester is banged up with another alien who later helps him escape his captors.

day) is conducting an experiment when a storm causes his particle accelerator to explode, teleporting Lester to an alien planet where he encounters various environmental hazards, dangerous alien wildlife and is imprisoned by the somewhat unfriendly indigenous aliens.

What modern-day gamers might find slightly off-putting is the difficulty of the gameplay. Seeing as this is an old-school game, it's punishingly hard, with

most of the puzzles and enemy encounters calling for precise movements, accurate positioning and split-second timing. If you're not used to this sort of thing it will drive you barmy. However, those who persevere with it will ultimately find it a rewarding and fascinating piece of videogaming history.

Needless to say gamers who loved it the first time around will find their retro appetites suitably sated.

WORLD OF APPS



The new Guardian iPad app is, so far, one of the best newspaper apps on the iPad.

>>NEWSPAPER APP

Guardian iPad edition

£FREE The Guardian newspaper app for your iPad

Developer: Sophia Teutschler **Version:** 1.0.2 **Works with:** iPad, iOS 4.0 or later



Equipped with an interface that is intuitive and bright, the *Guardian* app has finally arrived on the iPad.

The content comes from each issue of the newspaper, and we liked the way the app gives you the ability to browse articles via images from the In Pictures option in the top navigation-strip. Each article has

a sharing option at the top right enabling you to share content via social media and email.

You'll need iOS 5 in order to run the app and a full subscription costs £9.99 per month. However you get a three-month free trial once you've installed it.

VERDICT

★★★★★

"Easy reading and a must-have for any Guardian fan."

>>FACTS FOR KIDS

WeirdButTrue

£1.49 A wealth of interesting facts for kids

Developer: National Geographic Society **Version:** 1.0 **Works with:** iPhone, iPad, iPod touch, iOS 4.0 or later



We all love weird and wonderful facts, and this app compiles more than 300 into a bright and colourful interface. Swipe or shake to move through them, and each is differently designed and coloured. There's plenty of interesting stuff there to surprise you as well as your kids,

there's an index to browse topics and you can mark favourites. It's simple and does what you'd expect. But is it an app that would get used once and then forgotten? Quite possibly.

VERDICT

★★★★★

"There are plenty of interesting facts here, but is it forever?"

>>WEATHER APP

Magical Weather

69p Turn your idle iPad into a weather station

Developer: Sophia Teutschler **Version:** 1.0.2 **Works with:** iPad, iOS 4.0 or later



Seeing as Brits love talking about the weather, this app should be conversation dynamite. It's packed to the rafters with information about what the world's weather is getting up to.

It looks beautiful, too. One of a range of animated backgrounds plays on your screen, reflecting

the weather in your chosen location. And over the top, you can choose three levels of information, including day-by-day and hour-by-hour forecasts. It's an extremely useful app to have.

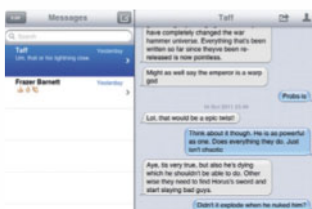
VERDICT

★★★★★

"A handy weather station/conversation piece."

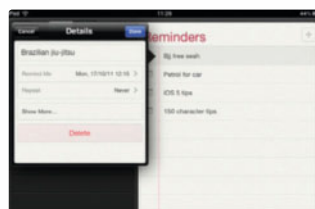
Essential iOS Tips & tricks

Now you've got iOS 5 let's see what it can do...



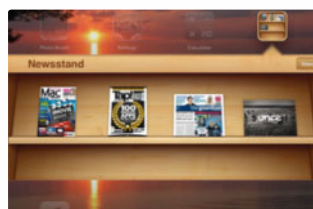
01 Use iMessage

iMessage is Apple's new way of instant messaging, enabling you to message anybody on an iPhone, iPad or iPod touch. Simply enter a phone number or email address and type your message. It supports pictures, videos and more.



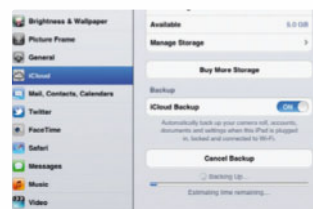
02 Reminders

Now there's no excuse for forgetting to pay the bills! Just go to the new *Reminders* app, tap on the plus button and type. *Reminders* can be set to specific dates and times and you can see a full list of completed tasks.



03 Newsstand

iOS 5 organises all your magazine and newspaper app subscriptions in one place. There is also a new section on the App Store for subscriptions. *Newsstand* enables easy management of all your subscriptions and editions.



04 Wireless sync

You no longer need access to a Mac or PC in order to update and back up your device. The new system allows wireless setup straight out of the box and works with iCloud, enabling back-up and restoration of your device.

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GROUP TEST

Multifunction inkjet printers come in all shapes and sizes, but which one's top of the tower?



Words: Ian Osborne Photography: Dave Caudery

Multifunction inkjet printers

If you want an inkjet printer that's also a scanner and copier, your luck's in. But which brand is best?

Almost every computer owner needs a printer. Whether you're a light user who only prints the occasional letter or an enthusiastic photographer whose images must be precisely realised, if you own a Mac you'll want to own a decent printer too.

Multifunction inkjet devices are currently the most popular printers available. They're cheaper and more versatile than laser printers, and if you shop carefully, you can get an incredibly capable model without spending more than you need to.

All multifunction printers offer three key features. They can print from your computer (of course), have a built-in flatbed scanner for capturing images and can make direct photocopies from the scanner, without using your Mac at all.

"All multifunction printers offer three key features. They can print, scan and photocopy"

In this group test, we're looking at mid-priced multifunction devices for general home use, though it's possible to tailor your purchase to meet specific needs. For example, a small office printer is likely to offer high text-printing speeds, good networking facilities and sizable sheet feeders, while a photo printer is designed to meet the image-printing needs of photographers. These days, inkjets that can print A3 pages can be bought quite cheaply, but we're looking at the more common (and popular) A4 models.

>> DID YOU KNOW THIS?

Printer ink cartridges can often be very expensive, but you can sometimes save money by buying reliable third-party inks or refills. Before buying a printer, it's wise to check the prices of replacement ink.



>> MULTIFUNCTION PRINTERS / At a glance



	Brother MFC-J825DW	Canon PIXMA MG8150	Epson Stylus Photo PX730WD	HP Envy 110 AiO	Kodak Office Hero 6.1	Lexmark Genesis S815
Price *	£145	£217	£197	£239	£163	£209
Manufacturer	Brother UK Ltd	Canon (UK) Ltd	Seiko Epson Corporation	Hewlett-Packard Development Company	Kodak Limited	Lexmark International, UK
Website	www.brother.co.uk	www.canon.co.uk	www.epson.co.uk	www.hp.co.uk	www.kodak.co.uk	www.lexmark.co.uk
Connectivity	USB, Ethernet, Wi-Fi	USB, Ethernet, Wi-Fi	USB, Ethernet, Wi-Fi, AirPrint	USB, Wi-Fi, AirPrint, ePrint	USB, Wi-Fi, Ethernet, Google Cloud, email printing	USB, Wi-Fi
Fax facilities	Yes	No	No	eFax only	Yes	Yes
PictBridge	Yes	Yes	Yes	No	Yes	Yes
Duplex	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Ink tanks	Four, CMYK	Six, CMYK + grey & pigment black	Six, CMYK plus light magenta, light cyan	Two (tricolour and black)	Two (five-colour and black)	Four (CMYK)
Dimensions	40.4x37.8x18cm	47x39.2x19.9cm	44.5x45.8x15cm	42.7x33.7x10.2cm	46.2x43.2x26cm	42x38.6x32.1cm
Weight	9.29kg	10.7kg	9.8kg	7.25kg	9.6kg	8.7kg

* Prices correct at time of going to print. Recorded at Amazon.co.uk, rounded to nearest pound.

GROUP TEST

01



[01] Brother
£145 www.brother.co.uk

02



[02] Canon
£217 www.canon.co.uk

03



[03] Epson
£197 www.epson.co.uk

»»TEST ONE

Design and build

How do they look? What's the build quality?

Full marks for the HP Envy here with its smart white and beige styling and elegant design. The Lexmark Genesis S815 takes a new look at the printer form factor; it won't appeal to everyone, but we salute its out-of-the-box thinking. Canon's PIXMA MG8150 makes the most of the traditional printer look, with a robust build and touch-sensitive controls that only appear when in use.

The Epson's build quality was only average, with the out tray looking flimsy, but Kodak was the weakest of the range here. Its control console is ugly, being crammed with silver buttons, and

its overall construction lacked robustness and looked dated. The lugs on the ADF feeder snapped as soon as we slotted it into place.

Although most of the printers were easy to set up, infuriatingly, only the Kodak's bundled disc was Lion compatible; the others forced you to look online for drivers. As OS X 10.7 has been out since July, this is unacceptable.

»»TEST RESULTS

Brother MFC-j825DW	★★★★★
Canon PIXMA MG8150	★★★★★
Epson Stylus Photo PX730WD	★★★★★
HP Envy 110 AiO	★★★★★
Kodak Office Hero 6.1	★★★★★
Lexmark Genesis S815	★★★★★

»»TEST TWO

Feature set

What can they do beyond printing, scanning and copying?

All these printers feature network connectivity, with all but the HP and Lexmark offering Ethernet as well as Wi-Fi. The HP and Epson printers are AirPrint compatible, with the HP and Kodak capable of printing directly from emails.

Lexmark's Genesis S815 is full of fresh ideas. Instead of a flatbed scanner, it uses a near-vertical camera-based image capture system, which takes just three seconds to 'scan' a page, though the lack of an ADF (which only the Brother and Kodak have) severely limits its usefulness. You can download mini-apps to display on its 4.3-inch touchscreen, giving

Facebook and Twitter integration, compatibility with online photo sharing services, RSS feeds and more. The HP also has mini-apps.

All the printers on test feature automatic duplex printing, so you can print on both sides of the page without turning it over and putting it back into the paper tray. The Brother, Canon and Epson models can print on optical discs.

»»TEST RESULTS

Brother MFC-j825DW	★★★★★
Canon PIXMA MG8150	★★★★★
Epson Stylus Photo PX730WD	★★★★★
HP Envy 110 AiO	★★★★★
Kodak Office Hero 6.1	★★★★★
Lexmark Genesis S815	★★★★★

»» HOW WE TESTED / Putting the printers through their paces

We have a range of standard tests we use for printer reviews. In our speed test, we time how long it takes to print a 20-page text PDF. Using the same document for every printer we test lets us compare speeds more accurately than by using manufacturers' stated page-per-minute times. The quality of text output is tested using another standard document, which uses a number of fonts and point sizes.

We test photo-printing qualities in two ways; a default-quality printing on standard paper, and a high-resolution print

on dedicated photo paper. We use a variety of photos and images, the most important of which is a photo-disc image designed to test reproduction of colours, flesh tones, colour and greyscale ramps and more. The photo-paper printing is again timed.

Our build and design test looks at how well built each printer is, both functionally and aesthetically, and also how easy it is to set up and use. Finally, our features test looks at what each printer has to offer over and above the basic feature set you would expect from a multifunction inkjet.



The image and text-rendering PDF we used to test the printers.

04

05

GROUP TEST

06

[04] Hewlett Packard
£239 www.hp.co.uk

[05] Kodak
£163 www.kodak.co.uk

[06] Lexmark
£209 www.lexmark.co.uk

»»TEST THREE

Text printing

We look at the speed and quality of text output

The quality of inkjet printers has improved considerably over the years, so perhaps it's unsurprising that none of the models on test here put in a poor performance. The Epson and Brother printers lost a few points on the integrity of the characters. Although far from fuzzy, close inspection showed a bleed around the edges. They were a little dull, too. The Kodak was cleaner but even less vibrant, looking grey compared to the others. Regular readers won't be surprised that the Canon came out on top, with impeccable clarity and vibrancy.

The Epson and Brother printers were fastest at printing our

20-page test document, taking under three minutes and just over two minutes respectively. The Canon took just over four, and the HP four and a half, both of which are acceptable. The Lexmark was slowest at just over six minutes. The Kodak clocked in at around five and a half minutes, which is slow for a machine with the word 'Office' in its name.

»»TEST RESULTS

Brother MFC-J825DW	★★★★★
Canon PIXMA MG8150	★★★★★
Epson Stylus Photo PX730WD	★★★★★
HP Envy 110 AiO	★★★★★
Kodak Office Hero 6.1	★★★★★
Lexmark Genesis S815	★★★★★

»»TEST FOUR

Image quality

We look at plain-paper and high-quality photo printing

For our photo-printing test, we printed on high-grade photo paper at maximum quality. Canon squeezed a narrow victory with precise colours, clear images and a smooth greyscale ramp. The Epson was only slightly behind, with the Lexmark and HP performing well. The Brother was clear, but over-red and lacking in vibrancy, with the Kodak looking washed out and yellow.

On plain paper at default print quality, the HP and Lexmark came out on top, with the Canon slightly behind due to a mildly bleached image reproduction. The other printers gave even more washed-out results.

When printing quality photos, speed is definitely not a major consideration, but the Canon's two minutes, three seconds and the Lexmark and Epson's around two and a half minutes are highly commendable. The Kodak put in a sub-two-minute speed, but we would rather it took longer and looked better. The HP was slowest at around six and a half minutes.

»»TEST RESULTS

Brother MFC-J825DW	★★★★★
Canon PIXMA MG8150	★★★★★
Epson Stylus Photo PX730WD	★★★★★
HP Envy 110 AiO	★★★★★
Kodak Office Hero 6.1	★★★★★
Lexmark Genesis S815	★★★★★

»»THE WINNER / Canon PIXMA MG8150

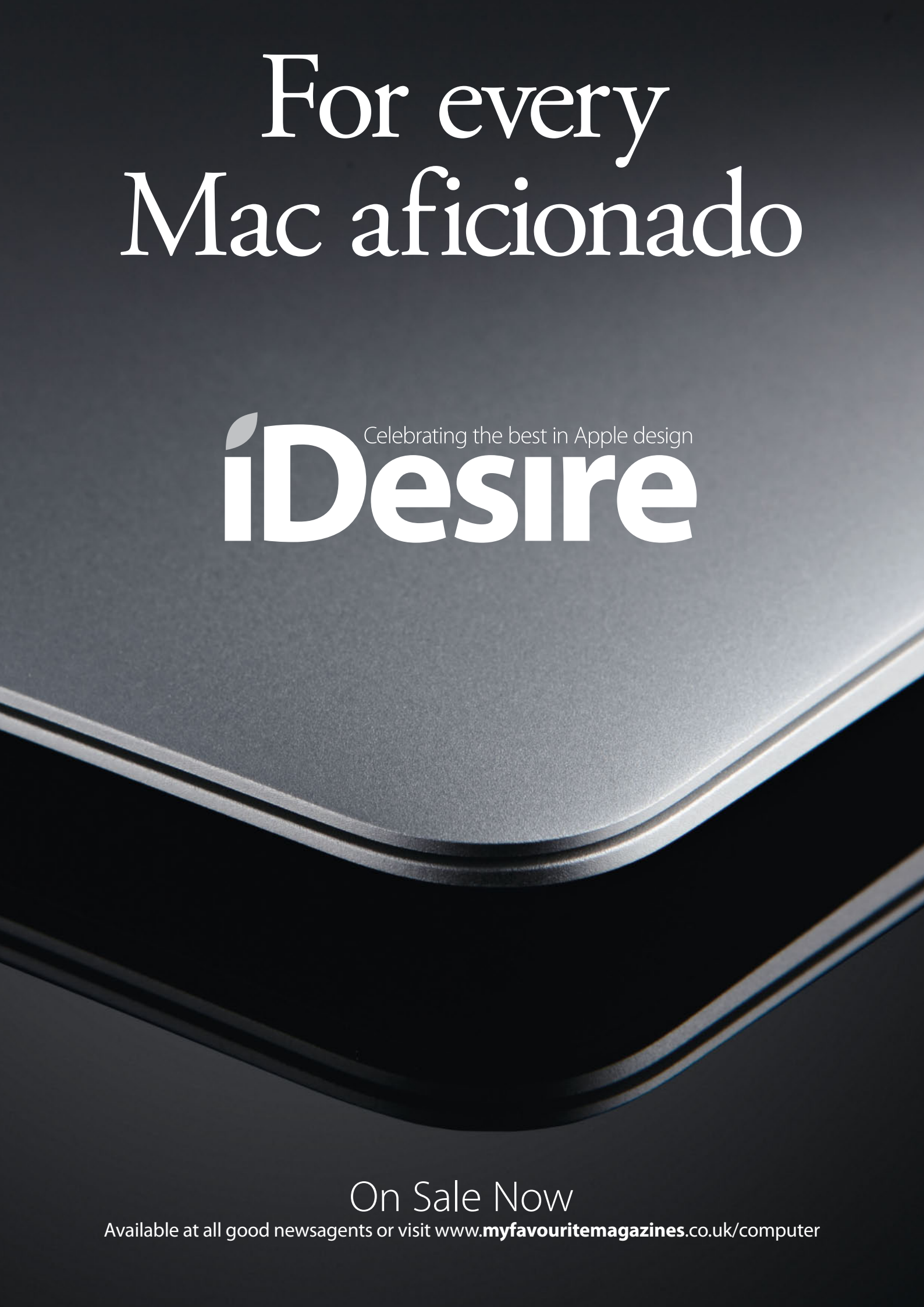
This group test was very close. The Canon PIXMA MG8150 is robust, and although it's not as good-looking as the Lexmark or HP models, its minimalist approach and touch-sensitive controls that light up when in use make it more attractive than your average printer. Stellar print quality keeps it at the head of the pack. Its pigmented ink keeps its text printing vibrant, and its photo printing almost perfect. Yet the others are closing in fast; Canon won't find it easy to stay on top. HP's Envy 110 AiO deserves a kind word

too. It's incredibly stylish, and although one or two features have been sacrificed, it's certainly worth considering if you like your Mac set up to look good as well as function efficiently.

»»FINAL RESULTS

Brother MFC-J825DW	★★★★★
Canon PIXMA MG8150	★★★★★
Epson Stylus Photo PX730WD	★★★★★
HP Envy 110 AiO	★★★★★
Kodak Office Hero 6.1	★★★★★
Lexmark Genesis S815	★★★★★





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HOW TO BUY

HOW TO BUY

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"At 940x640, the iPhone 4S screen offers the same resolution as the iPhone 4"

YOUR GUIDE TO APPLE'S iOS DEVICE RANGE P122

Buyers' Guide

- DESKTOPS
- NOTEBOOKS
- iPADS
- IPHONES
- SOFTWARE



Tim Hardwick
Production Editor

The new iPhone is finally with us, but it's not the iPhone 5. Instead, we got the iPhone 4S, a release that wasn't universally well received. Some folks loved it, queueing for hours outside their local Apple Store to make sure they got one on release day, but others argued it's not a significant enough advancement on the iPhone 4. So is it worth upgrading? Ultimately that's up to you, but if you check out our Buyer's Guide to iPhones, you can see

how it measures up against the iPhone in your hand. The new release has a much better camera and a super-fast new processor, so it's definitely worth a look.

As always, Buyer's Gear brings you the very best products we've reviewed over the last six months or so. If you're looking for a new printer, hard drive, camera or other such peripheral or software package, take a look at our guide to top-rated products, and find something that suits your needs.

»» BUYING ADVICE YOU CAN TRUST

Our mission is to ensure that when you buy a Mac-related product, you are completely informed about its best and worst features. We have a cast-iron policy of editorial independence. **For the latest prices and full review see the TechRadar URL listed next to each review.**

How to buy a new Mac

Not sure which Mac to buy? We'll help you choose!



>> DID YOU KNOW THIS?

The Mac Pro is also available in a Server Edition. Out of the box, it boasts a 2.8GHz CPU, two 1TB hard drives, 8GB of memory and OS X Lion Server preinstalled.

The Mac Pro offers an ATI Radeon HD 5770 with 1GB GDDR5 graphics card, a 1TB hard drive and an 18x SuperDrive.



Apple sells its products every which way at once. You can buy a Mac direct from the online Apple Store (<http://store.apple.com/uk>); from one of the growing number of bricks-and-mortar Apple Stores around the country; from official 'Apple shops' within department stores, staffed by certified Apple Solutions Consultants; and from hundreds of independent Apple Authorised Resellers and Premium Resellers, variously selling online or on the high street.

The bigger independents buy direct from Apple, while others go through a network of distributors. To find the one nearest you, go to www.apple.com/uk/buy. Given this range of outlets, shopping around for your Mac could save you money – but probably not very much. There simply isn't much profit margin for independent dealers to knock off. The Mac's popularity means Apple doesn't have to leave a big gap between its wholesale prices and Apple Store prices – effectively the minimum and maximum level at which retailers can sell their wares.

Authorised Resellers may knock a few pounds off Apple Store prices, and can also sell you other kit at competitive prices. Although you may find fractionally lower prices online, by choosing a local dealer you could get the

The mid-2011 refresh brought quad-core Sandy Bridge processors to the iMac range.



benefit of trying before you buy and having someone on hand to answer questions. Either way, Mac resellers tend to be very knowledgeable and keen to help.

There are a couple of other ways to cut the cost of a new Mac. Business buyers can save a fortune by

price of £1,399. Authorised Resellers can access these special rates and may even shave a bit more off for you.

To help you find the cash, Apple also offers financing options. For consumers, this spreads the payments, though you do pay interest. For businesses, flexible leasing knocks

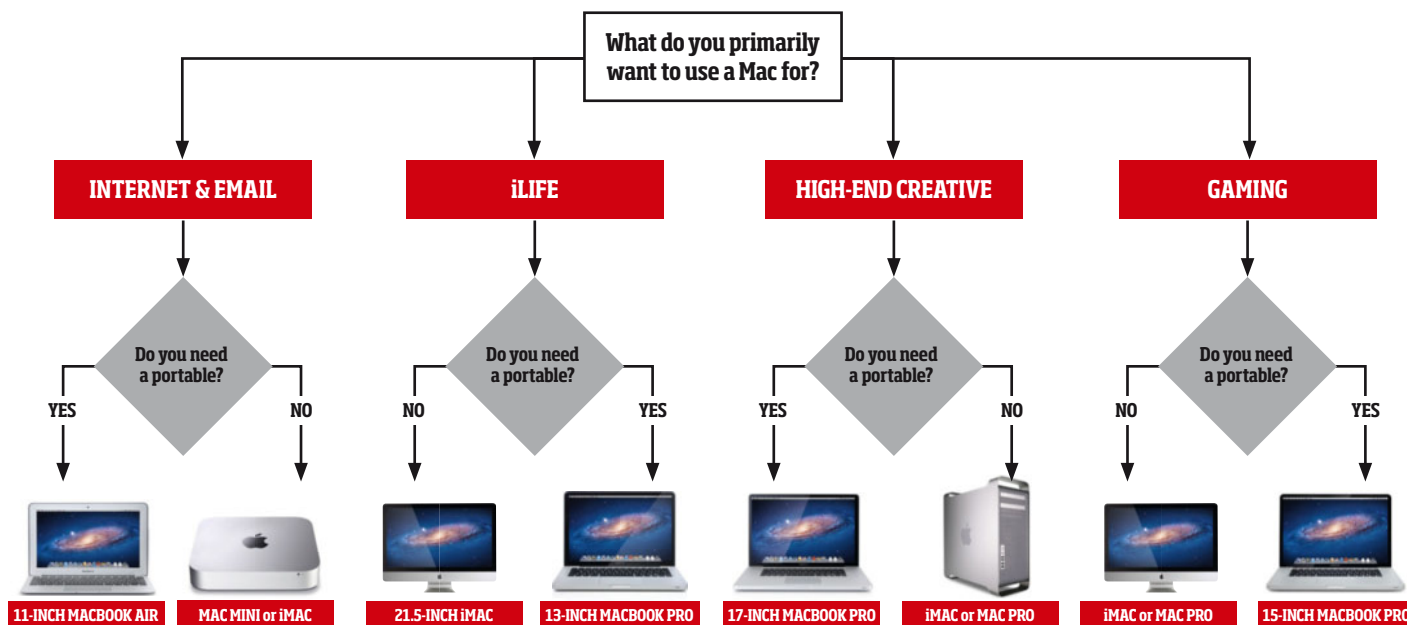
"Cut the cost of your new Mac. Business users can save a fortune by reclaiming the VAT and offsetting the purchase against tax"

reclaiming the VAT and offsetting the purchase against tax. If you're not eligible, you may still qualify for a discount from Apple. Any student or teacher can get special pricing. That includes schoolkids (follow links to the Education Store for more). The reductions aren't huge, but they're worth having. For example, a top-of-the-range 27-inch iMac lists for £1,315.20, compared to the regular

more off your tax bill and lets you upgrade your hardware – and indeed software – when necessary without spending big chunks of capital. You can find out plenty more at www.apple.com/uk/financing.

Your budget will stretch even further with clearance, refurb and second-user deals. If you can suppress your envy of marginally newer, shinier kit, the best time to shop for a Mac is

>> CHOOSING A MAC / Which one is right for you?



just after Apple brings out new models. Wander down to John Lewis and you're quite likely to find the last of the old range with three-figure reductions. Do check the specs against the incoming versions, which will offer more for the same original price, but at the bottom end of the range you could pay less than the current entry-level for a perfectly good machine. Anywhere that holds Macs in stock is similarly worth a raid, and online retailers also have clearance bins.

Saving money

Apple itself has a surprisingly little-known online bargain basement at <http://store.apple.com/uk/browse/home/specialdeals/mac>. It's a treasure trove of cut-price kit, with some clearance items and many described as 'refurbished'. This usually means someone's bought a Mac, then changed their mind or found a problem and sent it back. Industry insiders tell us these returns often have absolutely nothing wrong with them, and in any case they're fully tested and any faults fixed before they're resold. They're guaranteed for a full year, extendable up to three years via AppleCare.

Besides deciding who to buy from, there's the tricky question of which

Apple MacBooks come in a range of screen sizes, from the 11-inch Air to the 17-inch Pro.

Mac to pick. You can have a MacBook Pro, MacBook Air, Mac mini, iMac or Mac Pro. Most Mac families offer several standard models, plus plenty

"There's the tricky question of which Mac to pick. You can plump for a MacBook Pro, MacBook Air, Mac mini, iMac or Mac Pro"

of built-to-order options, adding up to hundreds of possibilities.

By comparing the prices of different configurations – easily done at <http://store.apple.com/uk> – you can suss out the best value. For example, the entry-level 21.5-inch iMac is a bargain at £999. If you want a higher spec, the

next option doubles the hard disk space and adds a more powerful graphics card, but it's an extra £250. However, you're not limited to the

preset models. By clicking the Select button, you can tweak the listed specifications to create your own Mac. The only downside is that you'll need to allow a week or two for your own personal Mac to arrive.

Just think of it as an exercise in delayed gratification.



>> DID YOU KNOW THIS?

The latest MacBook Pros, released in February 2011, have new Sandy Bridge processors, great new graphics solutions and the new ultra-fast Thunderbolt connectivity port.

How to choose the perfect Mac

Let us help you make the right purchase. Here are your options...

21.5-inch 2.5GHz £999

- 2.5GHz quad-core Intel Core i5
- 21.5-inch glossy widescreen at 1,920x1,080 pixels • 4GB RAM (expandable to up to 16GB) • 500GB hard drive
- 8x double-layer SuperDrive
- AMD Radeon HD 6750M graphics with 512MB GDDR5 memory • 4x USB 2.0 ports; 1x FireWire 800 port; 1x Thunderbolt port; 1xSDXC card slot • Ships with Mac OS X Lion, iLife '11, Magic Mouse, keyboard

21.5-inch 2.7GHz £1,249

- 2.7GHz quad-core Intel Core i5
- 21.5-inch glossy widescreen at 1,920x1,080 pixels • 4GB RAM (expandable to up to 16GB) • 1TB hard drive
- 8x double-layer SuperDrive
- AMD Radeon HD 6770M graphics with 512MB GDDR5 memory • 4x USB 2.0 ports; 1x FireWire 800 port; 1x Thunderbolt port; 1xSDXC card slot • Ships with Mac OS X Lion, iLife '11, Magic Mouse, keyboard

27-inch 2.7GHz £1,399

- 2.7GHz quad-core Intel Core i5
- 27-inch glossy widescreen at 2,560x1,440 pixels • 4GB RAM (expandable to up to 16GB)
- 1TB hard drive • 8x double-layer SuperDrive • AMD Radeon HD 6770M graphics with 512MB GDDR5 memory
- 4x USB 2.0 ports; 1x FireWire 800 port; 2x Thunderbolt ports; 1xSDXC card slot • Ships with Mac OS X Lion, iLife '11, Magic Mouse, keyboard

27-inch 3.1GHz £1,649

- 3.1GHz quad core Intel Core i5
- 27-inch glossy widescreen at 2,560x1,440 pixels • 4GB RAM (expandable to up to 16GB) • 1TB hard drive
- 8x double-layer SuperDrive
- AMD Radeon HD 6970M graphics with 1GB GDDR5 memory • 4x USB 2.0 ports; 1x FireWire 800 port; 2x Thunderbolt ports; 1xSDXC card slot • Ships with Mac OS X Lion, iLife '11, Magic Mouse, keyboard



iMac

Updated
May
2011

2.3GHz 500GB £529

- 2.3GHz dual core Intel Core i5
- 2GB RAM (2x 1GB 1,333MHz)
- 500GB SATA, 5,400rpm HDD
- 3MB shared L3 cache
- Intel HD Graphics 3000 with 288MB of DDR3 SDRAM shared with main memory • 802.11n WiFi, Bluetooth 4.0, 10/100/1000BASE-T Ethernet
- 1x Thunderbolt, 1x FireWire 800, 4x USB 2.0 ports • SDXC card reader • Lion, iLife '11
- HDMI video out with HDMI to DVI adapter • No optical drive

2.5GHz 500GB £699

- 2.5GHz dual core Intel Core i5
- 4GB RAM (2x 2GB 1333MHz)
- 500GB SATA, 5,400rpm HDD
- 3MB shared L3 cache
- AMD Radeon HD 6630M graphics processor with 256MB of GDDR5 memory • 802.11n WiFi, Bluetooth 4.0, 10/100/1000BASE-T Ethernet
- 1x Thunderbolt, 1x FireWire 800, 4x USB 2.0 ports • SDXC card reader • Lion, iLife '11
- HDMI video out with HDMI to DVI adapter • No optical drive



Mac mini

Updated
July
2011

Quad-Core

£2,041

- 2.8GHz Quad-Core Intel Xeon
- 3GB RAM (expandable to up to 16GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory
- Two Mini DisplayPorts, one DVI port • 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD±R DL/DVD±RW/CD-RW)
- 4x PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FW 800 ports • Keyboard with numerical keypad & Magic Mouse

8-Core

£2,859

- Two 2.4GHz Quad-Core Intel Xeon • 6GB RAM (expandable to up to 32GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory • Two Mini DisplayPorts, one DVI port • 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD±R DL/DVD±RW/CD-RW)
- 4x PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FW 800 ports • Keyboard with numerical keypad & Magic Mouse

12-Core

£4,083

- Two 2.6GHz 6-Core Intel Xeon
- 6GB RAM (expandable to up to 32GB) • ATI Radeon HD 5770 with 1GB of GDDR5 memory
- Two Mini DisplayPorts, one DVI port • 1TB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD±R DL/DVD±RW/CD-RW)
- 3x PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FW 800 ports • Keyboard with numerical keypad & Magic Mouse

Mac Pro

Updated August 2010

13-inch 2.3GHz

£999

- 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels
- 2.3GHz dual-core Intel Core i5 processor • 7-hour battery
- 4GB (two 2GB SO-DIMMs) of 1,333MHz DDR3 memory
- 320GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- Intel HD Graphics 3000
- Mac OS X 10.6 and iLife '11
- 1x Thunderbolt port, 1x FireWire 800, 2x USB 2.0, 1x SDXC card slot

13-inch 2.7GHz

£1,299

- 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels
- 2.7GHz dual-core Intel Core i7 processor • 7-hour battery
- 4GB (two 2GB SO-DIMMs) of 1,333MHz DDR3 memory
- 500GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- Intel HD Graphics 3000
- Mac OS X 10.6 and iLife '11
- 1x Thunderbolt port, 1x FireWire 800, 2x USB 2.0, 1x SDXC card slot

15-inch 2.0GHz

£1,549

- 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels
- 2.0GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1,333MHz DDR3 memory
- 500GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- AMD Radeon HD 6,490M graphics processor with 256MB of GDDR5 memory • Mac OS X 10.6 and iLife '11 • 1x Thunderbolt port, 1x FW 800, 2x USB 2.0, 1x SDXC slot

15-inch 2.2GHz

£1,849

- 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels
- 2.2GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1,333MHz DDR3 memory
- 750GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- AMD Radeon HD 6750M graphics processor with 1GB of GDDR5 memory • Mac OS X 10.6 and iLife '11 • 1x Thunderbolt port, 1x FW 800, 2x USB 2.0, 1x SDXC slot

13-inch models

£1,099/£1,349

- 1.7GHz Intel Core i5 CPU
- 13.3-inch LED-backlit glossy widescreen at 1,440x900 pixels • 128GB or 256GB of flash storage
- Intel HD Graphics 3000 processor • 4GB of 1333MHz DDR3 memory • Seven-hour battery life, or 30 days on standby • FaceTime camera
- 2x USB 2.0 ports, Thunderbolt port, 802.11n WiFi, Bluetooth 4.0 • SD reader • Lion and iLife '11

11-inch models

£849/£999

- 1.6GHz Intel Core i5 CPU
- 11.6-inch LED-backlit glossy widescreen at 1,366x768 pixels • 64GB or 128GB of flash storage
- Intel HD Graphics 3000 processor • 2GB or 4GB of 1333MHz DDR3 memory
- Five-hour battery life, or 30 days on standby • FaceTime camera • 2x USB 2.0 ports, Thunderbolt port, 802.11n WiFi, Bluetooth 4.0 • Lion and iLife '11 preinstalled

17-inch 2.2GHz

£2,099

- 17-inch LED-backlit glossy widescreen 1,920x1,200 pixels
- 2.2GHz quad-core Intel Core i7, 6MB shared L3 cache • 4GB 1,333MHz DDR3 memory
- 750GB, 5,400rpm hard drive
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- AMD Radeon HD 6750M graphics processor with 1GB of GDDR5 memory • Mac OS X 10.6, iLife '11 • 1x Thunderbolt port, 1x FireWire 800, 3x USB 2.0, 1x ExpressCard/34 slot

Updated July 2011



Updated July 2011



Updated Feb 2011



MacBook Air

MacBook Pro

What about an iPhone or iPad?

Apple's mobile devices are designed to sync perfectly with your Mac

>>> DID YOU KNOW THIS?



The new iPhone 4S is available in black or white. It features a powerful new eight-megapixel camera (60% more pixels than before), with advanced optics, a larger f/2.4 aperture and 1,080p HD video recording.

Both the iPhone and iPad have a touchscreen, come with email and web-browsing applications and are capable of running third-party apps that you can get from Apple's App Store. But the iPad isn't simply a bigger iPhone. The iPhone is first and foremost a phone, and like all mobile phones, unless you buy it on Pay as You Go (which makes the device itself much more expensive) you're going to be tied into a phone contract.

If you want all the features of the iPhone but without the phone part, then consider getting an iPod touch instead (see over the page).

If you're looking for a phone then you'll find the iPhone is designed to cover all your data needs while you're on the go, and fits in your pocket.

In contrast, the iPad is a device that sits somewhere between an iPhone and a Mac. It also comes with a 3G data contract option, but that doesn't include phone calls. The only phone calls you can make with it will be digitally, using VoIP apps, such as Skype. While a lot of people find the iPhone perfectly acceptable for home use, if you just need to check your email or do a quick bit of web surfing, the iPad is positively designed to be used from your sofa. It has built-in Wi-Fi, which

iOS 5 is the world's most advanced mobile-platform operating system, and has over 200 new features.



Use your iPad 2 to surf the web, run apps, send and receive emails, and listen to your music.



means you can check emails and browse the web on your wireless network at home. Here it would fulfil most functions of a laptop, but don't fall into the trap of thinking of the iPad as a replacement for a home computer.

"The iPad uses solid-state memory, so it's pretty-much instant on. There's no waiting around for it to boot up. It's also lightweight"

It's fundamentally designed to be an accessory. You're meant to keep your data on your Mac and sync your iPad with it, not the other way around.

It does have some big advantages over a Mac laptop, though. For a start, because it uses solid-state memory it's pretty-much instant on. There's no waiting around for it to boot up. It's also lightweight, extremely portable and the perfect size to be used as an ebook reader.

The iPhone currently comes in three versions, the 3GS, iPhone 4 and

iPhone 4S. The iPhone 4 and the new iPhone 4S feature a stunning 960x640 high-resolution display, making it much easier to read on-screen text. The iPhone 4S boasts a dual-core A5 processor, giving it up

to twice as much power and up to seven times faster graphics. Its eight-megapixel camera is much improved, and its new Siri feature lets you operate your iPhone by speaking.

The iPad 2 comes in black and white, each in three capacities, 16GB, 32GB and 64GB, available in Wi-Fi or Wi-Fi + 3G versions. Each 3G version costs £100 more than a Wi-Fi-only model with a similar memory capacity. Prices start at £399 for the 16GB Wi-Fi version, and go up to £659 for the top-range 64GB Wi-Fi + 3G iPad.



iPad 2

Updated
March
2011



iPad 16GB

£399 Wi-Fi
£499 Wi-Fi + 3G

- 9.7-inch LED-widescreen, 1,024x768 pixels • 1GHz dual core Apple A5 CPU • 25Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 720p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 3G only) • 241.2x185.7x8.8mm • 601g (Wi-Fi), 613g (Wi-Fi + 3G) • Accelerometer, three-axis gyro, ambient light sensor

iPad 32GB

£479 Wi-Fi
£579 Wi-Fi + 3G

- 9.7-inch LED-widescreen, 1,024x768 pixels • 1GHz dual core Apple A5 CPU • 25Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 720p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 3G only) • 241.2x185.7x8.8mm • 601g (Wi-Fi), 613g (Wi-Fi + 3G) • Accelerometer, three-axis gyro, ambient light sensor

iPad 64GB

£559 Wi-Fi
£659 Wi-Fi + 3G

- 9.7-inch LED-widescreen, 1,024x768 pixels • 1GHz dual core Apple A5 CPU • 25Wh battery gives up to 10 hours use • 3.5mm stereo headphone jack • Built-in speaker & mic • 720p, 30 fps rear-facing camera, VGA front camera • GPS (iPad Wi-Fi + 3G only) • 241.2x185.7x8.8mm • 601g (Wi-Fi), 613g (Wi-Fi + 3G) • Accelerometer, three-axis gyro, ambient light sensor

Updated
October
2011

iPhone



iPhone 3GS 8GB

£319 (Pay & Go)

- Available in black
- 3.5-inch widescreen
- 320x480 pixels • Wi-Fi (802.11b/g) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR
- Photo and video geotagging
- Battery lasts up to 30 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 12 hours (talktime)
- 115.5x62.1x12.3mm
- 135g • Requires Mac OS X 10.5.8 or later

iPhone 4 8GB

£249 (Pay & Go)

- Available in black or white
- 3.5-inch widescreen
- 960x640 pixels • Wi-Fi (802.11b/g/n) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.1 + EDR
- Photo and video geotagging
- Battery lasts up to 40 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 14 hours (talktime)
- 115.5x58.6x9.3mm
- 137g • Requires Mac OS X 10.5.8 or later

iPhone 4S 16, 32 or 64GB

From £499 (Pay & Go)

- Available in black or white
- 3.5-inch widescreen
- 960x640 pixels • Wi-Fi (802.11b/g/n) • UMTS/HSDPA/HSUPA/GSM/EDGE, 3G • Bluetooth 4.0 • Siri
- Assisted GPS • Photo and video geotagging
- Battery lasts up to 40 hours (audio), 10 hours (video), 14 hours (talktime) • 8MP camera
- 115.5x58.6x9.3mm • 140g
- Mac OS X 10.5.8 or later

>> CHOOSING AN IPOD



Updated
September
2010

iPod shuffle 2GB

£40

- Up to 500 songs • No ability to display photos or videos
- Available in five colours; silver, blue, green, yellow, pink
- No screen, but the control pad returns • VoiceOver enables your iPod to talk to you
- 3.5-mm stereo headphone jack is used for both audio out and USB charging
- Battery lasts up to 15 hours
- 29x31.6x8.7mm • 12.5g



Updated
October
2011

iPod touch 8GB

£169

- Up to 1,750 songs • Up to 10,000 photos • Up to 10 hours of video • Available in black or white • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos
- 111x58.9x7.2mm • 101g



Updated
October
2011

iPod nano 8GB

£115

- Up to 2,000 songs • Up to 7,000 photos • Includes Nike+iPod support • Available in silver, black, blue, green, yellow, pink and red (Apple Store exclusive) • 1.54-inch diagonal Multi-Touch screen • 240x240 pixel resolution (220 pixels per inch) • Battery lasts up to 24 hours • Includes VoiceOver technology and an FM radio • 37.5x40.9x 8.78mm • 21.1g

iPod nano 16GB

£129

- Up to 4,000 songs • Up to 14,000 photos • Includes Nike+iPod support • Available in silver, black, blue, green, yellow, pink and red (Apple Store exclusive) • 1.54-inch diagonal Multi-Touch screen • 240x240 pixel resolution (220 pixels per inch) • Battery lasts up to 24 hours • Includes VoiceOver technology and an FM radio • 37.5x40.9x 8.78mm • 21.1g

iPod touch 32GB

£249

- Up to 7,000 songs • Up to 25,000 photos • Up to 40 hours of video • Available in black or white • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos
- 111x58.9x7.2mm • 101g

iPod touch 64GB

£329

- Up to 14,000 songs • Up to 50,000 photos • Up to 80 hours of video • Available in black or white • 3.5-inch screen, 960x640 pixels • Wi-Fi (802.11b/g/n, 802.11n at 2.4GHz only) • Nike + iPod support • Battery lasts up to 40 hours (audio) seven hours (video) • Video recording at 720p HD, up to 30 frames per second • 960x720 still photos
- 111x58.9x7.2mm • 101g

iPod classic 160GB

£197

- Up to 40,000 songs • Up to 25,000 photos • Up to 200 hours of video • Available in black and silver • 2.5-inch screen • 320x240 pixels • Battery lasts up to 36 hours (audio) • Battery lasts up to 6 hours (video) • 103.5x61.8x 10.5mm • 140g



Updated
September
2009

Three overlapping iPad covers are shown. The top cover is 'iPad The Handbook: Essential Handbook' by No Starch Press, featuring two iPads displaying various apps. The middle cover is '100 tricks & tips for iPad 2' by No Starch Press, with a black background and large white text. The bottom cover is 'Tap! THE PHONE & IPAD MAGAZINE ISSUE 10' by No Starch Press, featuring an iPhone, car chargers, and the headline 'iPhone + CAR'.

Available on the
App Store

Price: £33 **Reviewed:** Issue 236
Full review: www.techradar.com/963037
Key specs: 2x40mm drivers, travel bag included
 + Crisp, clear sound; very portable; good value
 - Bass not very prominent

BUYERS' GUIDE

>> DIGITAL CAMERAS

Canon IXUS 220HS



★★★★★

Price: £199 **Reviewed:** Issue 235
Web: www.canon.co.uk
Full review: www.techradar.com/932082
Key specs: 12.1MP resolution; 4.3-21.5mm lens f/2.7-4/5.9; electronic viewfinder 2.7-inch LCD with 230,000 dots

- Stylish, tough steel body; easy to carry; high quality images
- ⊖ LCD reflections in the sun

"Even at lower settings, this camera impresses with the detail it captures. A good choice for snapping social events."

Samsung NX100 ★★★★★



Price: £249 **Reviewed:** Issue 239
Full review: www.techradar.com/913705
Key specs: 14.6MP; 20-50mm lens; f3.5-5.6; 340g

- Powerful and flexible; very good photos
- ⊖ No in-camera stabilisation; a few compromises

Panasonic Lumix DMC-GH2 ★★★★★★



Price: £750 **Reviewed:** Issue 232
Full review: www.techradar.com/926611
Key specs: 18.32MP; 14-42mm lens; SD/SDHC/SDXC

- Smooth video output; articulated LED screen
- ⊖ Some small controls; too expensive

>> DIGITAL VIDEO CAMERAS

Sony HDR-CX115E



★★★★★

Price: £300 **Reviewed:** Issue 233
Web: www.sony.co.uk
Full review: MF Issue 233 group test
Key specs: 1920x1080 resolution; 2.7-inch LCD; covers MPEG4-AVC and H.264 recording formats

- Excellent all-round performance, and a compact, portable form factor
- ⊖ There are cheaper camcorders around

"The Sony provides you with all you'd want from a camcorder, with excellent build, features and quality."

Canon HV30 ★★★★★



Price: £1,140 **Reviewed:** Issue 201
Full review: www.techradar.com/468942
Key specs: HDV; DIGIC II processor; MiniDV/SD card

- Superb stills and video; better than HDD
- ⊖ Cumbersome to use

Samsung VP-HMX 20C ★★★★★★



Price: £375 **Reviewed:** Issue 202
Full review: www.techradar.com/528224
Key specs: 2.7-inch LCD; movie capture at 2.1MP

- Good screen; lightweight; offers full HD
- ⊖ Really need to shop around for price

>> ROUTERS/NETWORKING

AVM FRITZ!Box 7390



★★★★★

Price: £250 **Reviewed:** Issue 229
Web: www.fritzbox.eu
Full review: www.techradar.com/912929
Key specs: 802.11n, g, b and a; dual band 2.4GHz and 5GHz; power consumption 6-8 watts; integrated DECT base station

- Packed with features, including dual band wireless 'n'; very fast
- ⊖ Expensive, especially if you don't want the telephony functions

"Fast and feature-rich, the FRITZ!Box 7390 could transform your home network. Great traffic-shaping features too."

Devolo dLAN Wireless 'n' ★★★★★★



Price: £115 **Reviewed:** Issue 231
Full review: www.techradar.com/926334
Key specs: Three Ethernet ports plus Wi-Fi

- Easy to set up and use; versatile; fast speeds
- ⊖ A little bulky for some skirting boards

Cisco Linksys E4200 ★★★★★★



Price: £169 **Reviewed:** Issue 237
Full review: www.techradar.com/938920
Key specs: Six Wi-Fi antennas, four Ethernet ports

- Traffic management features; good range
- ⊖ No built-in modem

>> STORAGE

Seagate GoFlex Slim



★★★★★

Price: £74 **Reviewed:** Issue 236
Web: www.seagateactive.com
Full review: MF Issue 236 group test
Key specs: 320GB capacity; USB 3.0 port can be replaced with FireWire or Thunderbolt port; ultra-thin

- NTFS-formatted for PC and Mac compatibility, with drivers included
- ⊖ Not a great range of capacities at the time of writing

"A good looking, well built and versatile drive with a prestige to match its name. It's extremely portable too."

Seagate GoFlex Satellite ★★★★★★



Price: £160 **Reviewed:** Issue 240
Full review: www.techradar.com/1029702
Key specs: 500GB; Wi-Fi g/n connectivity

- Stream media and docs to Mac and iOS over Wi-Fi
- ⊖ No internet bridging

DataTraveler Locker+ 8GB ★★★★★★



Price: £20 **Reviewed:** Issue 232
Full review: www.techradar.com/930867
Key specs: 256-bit AES security

- Password-protects your data; good price
- ⊖ Can't function without its launcher app

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www.myfavourite-magazines.co.uk/apps

Available on the
App Store

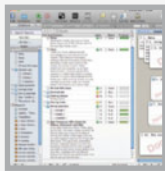
For every
Mac aficionado

iDesire

BUYERS' GUIDE

»» HOME OFFICE

Scrivener 2.0



★★★★★

Price: £30 **Reviewed:** Issue 229
Web: www.literatureandlatte.com
Full review: www.techradar.com/913378
System reqs: A Mac with either an Intel or an older PPC processor can be used; minimum version of OS X is 10.4: Tiger

- ⊕ Great new features; improved corkboard; better outlining
- ⊖ Some aspects are quite complex

"Far and away the best application available for long-form writing, on any platform. A superb update."

MS Office for Mac 2011 ★★★★★



Price: From £76 **Reviewed:** Issue 228
Full review: www.techradar.com/903277
System reqs: OS X 10.5.8 or later; Intel Mac
⊕ Cheaper and faster than 2008; new features
⊖ No upgrade pricing

Nisus Writer Pro 2 ★★★★★



Price: £49 **Reviewed:** Issue 237
Full review: www.techradar.com/974528
System reqs: OS X 10.4 or later
⊕ Clean, fast and stable; EPUB export
⊖ Nisus Writer Express might be enough

»» VISUAL TOOLS & LAYOUT

Freeway 5.5 Pro



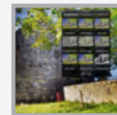
★★★★★

Price: £155 **Reviewed:** Issue 230
Web: www.softpress.com
Full review: www.techradar.com/919171
System reqs: Mac OS X 10.5 or higher; Intel or PowerPC processor; Tiger users can run Version 5.4.3

- ⊕ Powerful layout controls; built-in web image optimising; new features
- ⊖ Weak HTML import; only one undo

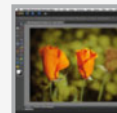
"Freeway 5.5 Pro is great for website design work, and doesn't ask for a degree in coding first."

Ohanaware HDRtist Pro ★★★★★



Price: £20 **Reviewed:** Issue 235
Full review: www.techradar.com/954888
System reqs: Mac OS X 10.5 or later; 1GB RAM
⊕ Great value for money; ideal for novices
⊖ No zoom function for fine detail

Photoshop Elements 10 ★★★★★



Price: £79 **Reviewed:** Issue 240
Full review: www.techradar.com/1027864
System reqs: OS X 10.5.8+, Intel Mac
⊕ Powerful organiser; good for all skill levels
⊖ Search tools imprecise; few major enhancements

»» SYSTEM UTILITIES

Parallels Desktop 7



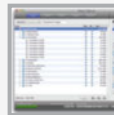
★★★★★

Price: £65 **Reviewed:** Issue 240
Web: www.parallels.com/uk
Full review: MacFormat 240
System reqs: OS X 10.5.8 or later; Intel processor; 2GB RAM; sufficient hard drive space for additional OS

- ⊕ More flexible than Boot Camp; Coherence Mode is very useful
- ⊖ Convenience Store a little lacking in content

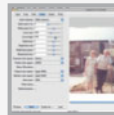
"If you need to run Windows or Linux on a Mac, Parallels Desktop 7 is a great way to set about it. Powerful and fast."

Roxio Toast 11 Titanium ★★★★★



Price: £85 **Reviewed:** Issue 233
Full review: www.techradar.com/936399
System reqs: OS X 10.5 or later; Intel Mac
⊕ Great new features; slick new interface
⊖ Fickle VIDEO_TS conversion

VueScan 9.0 ★★★★★



Price: From \$40 (£12) **Reviewed:** Issue 231
Full review: www.techradar.com/926342
System reqs: OS X 10.3.9 or later
⊕ Extends the life of out-of-date scanners
⊖ The wizard could do more

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Apple iLife '11



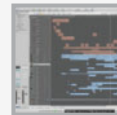
★★★★★

Price: £46 **Reviewed:** Issue 229
Web: www.apple.com/uk
Full review: www.techradar.com
System reqs: Intel processor; 1GB RAM; Mac OS X 10.6.3 or later; 5GB HDD space; display, min. 1280x768-pixel resolution.

- ⊕ Great new features for iPhoto, iMovie and iLife
- ⊖ iDVD and iWeb not updated; the iLife suite is now Snow Leopard-only

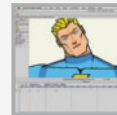
"It's a pity iLife '11 is Intel-only, but as PowerPC Macs were discontinued in 2006, it's probably time to let go."

Apple Logic Studio ★★★★★



Price: £417 **Reviewed:** Issue 213
Full review: www.techradar.com/625541
System reqs: Intel Mac; 1GB RAM; Mac OS X 10.5.7
⊕ Powerful music studio; great tools; good value
⊖ Some minor bugs in the initial release

Anime Studio Debut 8 ★★★★★



Price: £27 **Reviewed:** Issue 239
Full review: MacFormat 239
System reqs: 256MB RAM; OS X 10.5 or later
⊕ Great animation toolset; new Character Wizard
⊖ Interface still odd-looking

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www.bbmug.co.uk

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[7] Cumbria Mac Enthusiasts
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www.macenthusiasts.co.uk

[8] Deaf Mac Users
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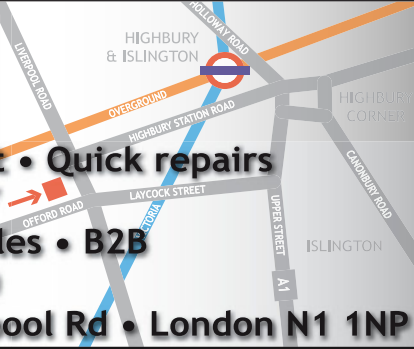
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